

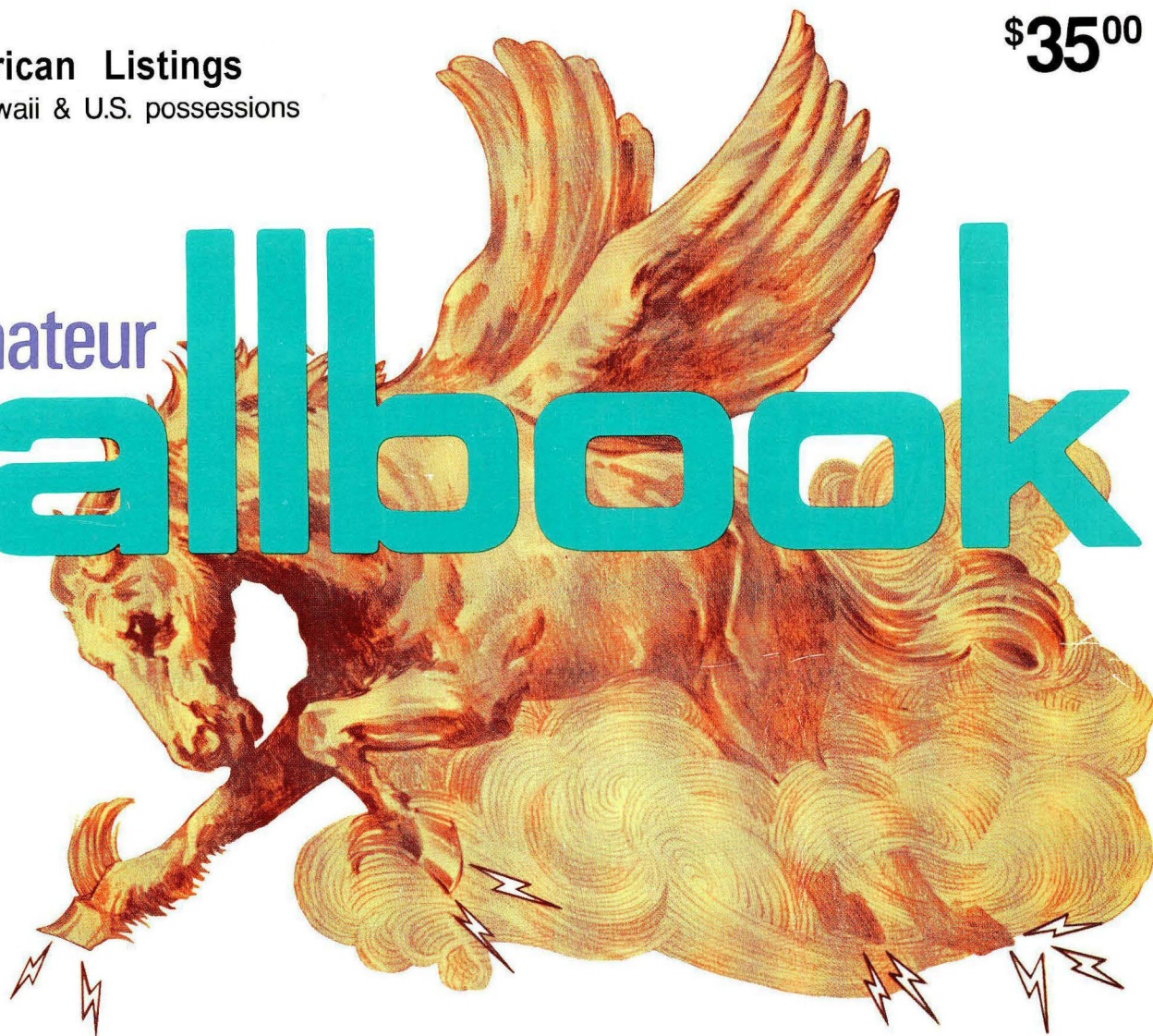
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including Hawaii & U.S. possessions

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1995

radio amateur

callbook



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- Table of Call Sign Allocations
- DXCC Countries List
- Census of Amateur Radio Licenses of the World
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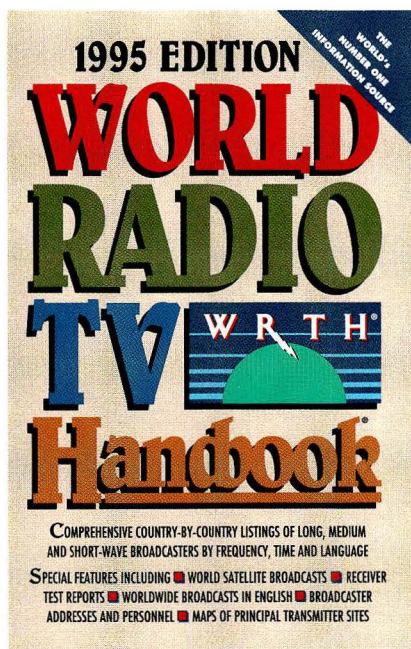
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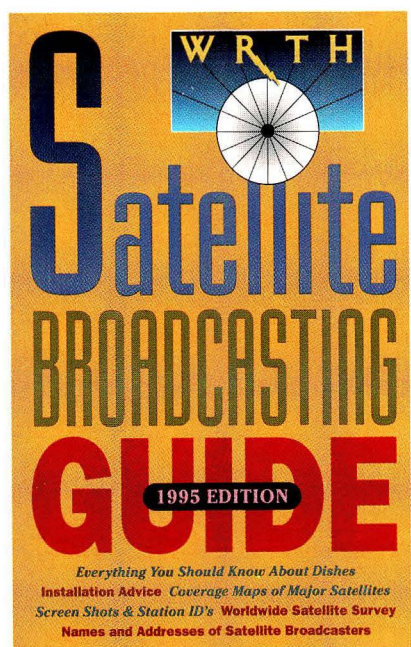
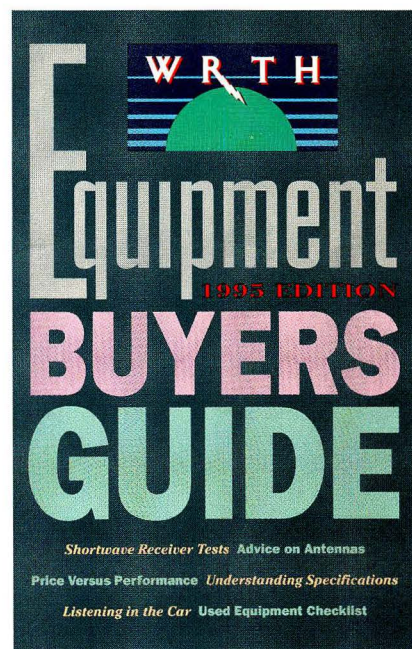
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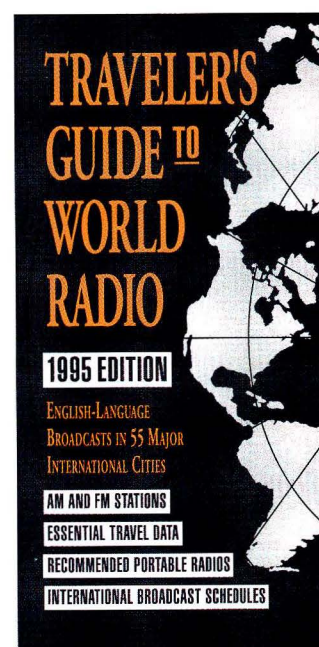


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radio amateur

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RADIO AMATEURS of NORTH AMERICA

VOLUME 73
NUMBER 1

Including Hawaii and
the U.S. Possessions

1995

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Includes the Mariana Islands and the States of Colorado, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota.	
NORTH AMERICAN COUNTRIES OUTSIDE THE U.S.A.	1807

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TABLE OF ALLOCATION OF INTERNATIONAL CALL SIGN SERIES

As Issued by the International Telecommunications Union and Others

Call Sign Series							
AAA-ALZ	United States of America	OMA-OMZ	Slovak Republic	ZPA-ZPZ	Paraguay	9HA-9HZ	Malta
AMA-AOZ	Spain	ONA-OTZ	Belgium	ZQA-ZQZ	Great Britain & Northern Ireland	9IA-9JZ	Zambia
APA-ASZ	Pakistan	OUA-OZZ	Denmark	ZRA-ZUZ	Rep. of South Africa	9KA-9KZ	Kuwait
ATA-AWZ	India			ZVA-ZZZ	Brazil	9LA-9LZ	Sierra Leone
AXA-AXZ	Australia	PAA-PIZ	Netherlands			9MA-9MZ	Malaysia
AYA-AZZ	Argentina	PJA-PJZ	Netherlands Antilles	2AA-2ZZ	Great Britain & Northern Ireland	9NA-9NZ	Nepal
		PKA-POZ	Indonesia			9OA-9TZ	Zaire
BAA-BZZ	China	PPA-PYZ	Brazil	3AA-3AZ	Monaco	9UA-9UZ	Burundi
		PZA-PZZ	Surinam	3BA-3BZ	Mauritius	9VA-9VZ	Singapore
CAA-CEZ	Chile	RAA-RZZ	Russian Federation	3CA-3CZ	Equatorial Guinea	9WA-9WZ	Malaysia
CFA-CKZ	Canada			3DA-3DM	Swaziland	9XA-9XZ	Rwanda
CLA-CMZ	Cuba	SAA-SMZ	Sweden	3DN-3DZ	Fiji	9YA-9ZZ	Trinidad and Tobago
CNA-CNZ	Morocco	SNA-SRZ	Poland	3EA-3FZ	Panama	A2A-A2Z	Botswana
COA-COZ	Cuba	SSA-SSM	Egypt	3GA-3GZ	Chile	A3A-A3Z	Tonga
CPA-CPZ	Bolivia	SSN-SSZ	Sudan	3HA-3UZ	China	A4A-A4Z	Oman
CQA-CUZ	Portugal	STA-STZ	Sudan	3VA-3VZ	Tunisia	A5A-A5Z	Bhutan
CVA-CXZ	Uruguay	SUA-SUZ	Egypt	3WA-3WZ	Viet Nam	A6A-A6Z	United Arab Emirates
CYA-CZZ	Canada	SVA-SZZ	Greece	3XA-3XZ	Guinea	A7A-A7Z	Qatar
				3YA-3YZ	Norway	A8A-A8Z	Liberia
DAA-DRZ	Germany	TAA-TCZ	Turkey	3ZA-3ZZ	Poland	A9A-A9Z	Bahrain
DSA-DTZ	South Korea	TDA-TDZ	Guatemala	4AA-4CZ	Mexico		
DUA-DZZ	Philippines	TEA-TEZ	Costa Rica	4DA-4IZ	Philippines	C2A-C2Z	Nauru
		TFA-TFZ	Iceland	4JA-4KZ	Azerbaijan	C3A-C3Z	Andorra
EAA-EHZ	Spain	TGA-TGZ	Guatemala	4LA-4LZ	Georgia	C4A-C4Z	Cyprus
EIA-EJZ	Ireland	THA-THZ	France	4MA-4MZ	Venezuela	C5A-C5Z	Gambia
EKA-EKZ	Armenia	TIA-TIZ	Costa Rica	4NA-4OZ	Yugoslavia	C6A-C6Z	Bahamas
ELA-ELZ	Liberia	TJA-TJZ	Cameroon	4PA-4SZ	Sri Lanka	C7A-C7Z	World Meteorological Organization
EMA-EOZ	Ukraine	TKA-TKZ	France	4TA-4TZ	Peru	C8A-C9Z	Mozambique
EPA-EQZ	Iran	TLA-TLZ	Central African Republic	4UA-4UZ	United Nations		
ERA-ERZ	Moldova	TMA-TMZ	France	4VA-4VZ	Haiti	D2A-D3Z	Angola
ESA-ESZ	Estonia	TNA-TNZ	Congo	4XA-4XZ	Israel	D4A-D4Z	Cape Verde
ETA-ETZ	Ethiopia	TOA-TOZ	France	4YA-4YZ	Int. Civil Aviation Organization	D5A-D5Z	Liberia
EUA-EWZ	Belarus	TRA-TRZ	Gabon	4ZA-4ZZ	Israel	D6A-D6Z	Comoros
EXA-EXZ	Russian Federation	TSA-TSZ	Tunisia			D7A-D9Z	South Korea
EYA-EYZ	Tajikistan	TTA-TTZ	Chad	5AA-5AZ	Libya		
EZA-EZZ	Turkmenistan	TUA-TUZ	Ivory Coast	5BA-5BZ	Cyprus	E2A-E2Z	Thailand
FAA-FZZ	France	TVA-TXZ	France	5CA-5GZ	Morocco		
		TYA-TYZ	Benin	5HA-5IZ	Tanzania	H2A-H2Z	Cyprus
GAA-GZZ	Great Britain & Northern Ireland	TZA-TZZ	Mali	5JA-5KZ	Colombia	H3A-H3Z	Panama
		UAA-UIZ	Russian Federation	5LA-5MZ	Liberia	H4A-H4Z	Solomon Islands
HAA-HAZ	Hungary	UJA-UMZ	Uzbekistan	5NA-5OZ	Nigeria	H6A-H7Z	Nicaragua
HBA-HBZ	Switzerland	UNA-UOZ	Russian Federation	5PA-5QZ	Denmark	H8A-H9Z	Panama
HCA-HDZ	Ecuador	URA-UTZ	Ukraine	5RA-5SZ	Madagascar		
HEA-HEZ	Switzerland	UUA-UZZ	Ukraine	5TA-5TZ	Mauritania	J2A-J2Z	Djibouti
HFA-HFZ	Poland			5UA-5UZ	Niger	J3A-J3Z	Grenada
HGA-HGZ	Hungary	VAA-VGZ	Canada	5VA-5VZ	Togo	J4A-J4Z	Greece
HHA-HHZ	Haiti	VHA-VNZ	Australia	5WA-5WZ	Western Samoa	J5A-J5Z	Guinea-Bissau
HIA-HIZ	Dominican Republic	VOA-VOZ	Canada	5XA-5XZ	Uganda	J6A-J6Z	Saint Lucia
HJA-HKZ	Colombia	VPA-VSZ	Great Britain & Northern Ireland	5YA-5ZZ	Kenya	J7A-J7Z	Dominica
HLA-HLZ	South Korea	VTA-VWZ	India			J8A-J8Z	St. Vincent and the Grenadines
HMA-HMZ	North Korea	VXA-VYZ	Canada	6AA-6BZ	Egypt		
HNA-HNZ	Iraq	VZA-VZZ	Australia	6CA-6CZ	Syria	L2A-L9Z	Argentina
HOA-HPZ	Panama			6DA-6JZ	Mexico		
HOA-HRZ	Honduras	WAA-WZZ	United States of America	6KA-6NZ	South Korea	P2A-P2Z	Papua New Guinea
HSA-HSZ	Thailand	XAA-XIZ	Mexico	6OA-6OZ	Somalia	P3A-P3Z	Cyprus
HTA-HTZ	Nicaragua	XJA-XOZ	Canada	6PA-6SZ	Pakistan	P4A-P4Z	Aruba
HUA-HUZ	El Salvador	XPA-XPZ	Denmark	6TA-6UZ	Sudan	P5A-P9Z	North Korea
HVA-HVZ	Vatican City	XQA-XRZ	Chile	6VA-6WZ	Senegal		
HWA-HYZ	France	XSA-XSZ	China	6XA-6XZ	Madagascar	S2A-S3Z	Bangladesh
HZA-HZZ	Saudi Arabia	XTA-XTZ	Burkina-Faso	6YA-6YZ	Jamaica	S5A-S5Z	Slovenia
		XUA-XUZ	Cambodia	6ZA-6ZZ	Liberia	S6A-S6Z	Singapore
IAA-IZZ	Italy	XVA-XVZ	Viet Nam	7AA-7IZ	Indonesia	S7A-S7Z	Seychelles
JAA-JSZ	Japan	XWA-XWZ	Laos	7JA-7NZ	Japan	S9A-S9Z	Sao Tome and Principe
JTA-JVZ	Mongolia	XXA-XXZ	Portugal	7OA-7OZ	Yemen		
JWA-JXZ	Norway	XYA-XZZ	Myanmar	7PA-7PZ	Lesotho	T2A-T2Z	Tuvalu
JYA-JYZ	Jordan			7QA-7QZ	Malawi	T3A-T3Z	Kiribati
JZA-JZZ	Indonesia	YAA-YAZ	Afghanistan	7RA-7RZ	Algeria	T4A-T4Z	Cuba
		YBA-YHZ	Indonesia	7SA-7SZ	Sweden	T5A-T5Z	Somalia
KAA-KZZ	United States of America	YIA-YIZ	Iraq	7TA-7YZ	Algeria	T6A-T6Z	Afghanistan
		YJA-YJZ	Vanuatu	7ZA-7ZZ	Saudi Arabia	T7A-T7Z	San Marino
LAA-LNZ	Norway	YKA-YKZ	Syria			T9A-T9Z	Bosnia and Herzegovina
LOA-LWZ	Argentina	YLA-YLZ	Latvia	8AA-8IZ	Indonesia		
LXA-LXZ	Luxembourg	YMA-YMZ	Turkey	8JA-8NZ	Japan	V2A-V2Z	Antigua and Barbuda
LYA-LYZ	Lithuania	YNA-YNZ	Nicaragua	8OA-8OZ	Botswana	V3A-V3Z	Belize
LZA-LZZ	Bulgaria	YOA-YRZ	Romania	8PA-8PZ	Barbados	V4A-V4Z	St. Kitts and Nevis
		YSA-YSZ	El Salvador	8QA-8QZ	Maldives	V5A-V5Z	Namibia
MAA-MZZ	Great Britain & Northern Ireland	YTA-YSZ	Yugoslavia	8RA-8RZ	Guyana	V6A-V6Z	Micronesia
		YTA-YUZ	Yugoslavia	8SA-8SZ	Sweden	V7A-V7Z	Marshall Islands
NAA-NZZ	United States of America	YVA-YYZ	Venezuela	8TA-8YZ	India	V8A-V8Z	Brunei
		YZA-YZZ	Yugoslavia	8ZA-8ZZ	Saudi Arabia	Y2A-Y9Z	Germany
OAA-OCZ	Peru	ZAA-ZAZ	Albania				
ODA-ODZ	Lebanon	ZBA-ZJZ	Great Britain & Northern Ireland	9AA-9AZ	Croatia	Z2A-Z2Z	Zimbabwe
OEA-OEZ	Austria	ZKA-ZMZ	New Zealand	9BA-9DZ	Iran	Z3A-Z3Z	Macedonia
OFA-OJZ	Finland	ZNA-ZOZ	Great Britain & Northern Ireland	9EA-9FZ	Ethiopia		
OKA-OLZ	Czech Republic			9GA-9GZ	Ghana		

CENSUS OF AMATEUR RADIO LICENSES* in the U.S.A.

by classes, within states and call areas

Call Area	State	Novice	Technician	Plus	General	Advanced	Extra	Club	Military	State Totals	Percent of Licenses
1	CT	1687	2715	60	1897	1486	1049	47	1	8942	1.36%
	MA	2295	5065	131	3276	2686	1927	77	3	15460	2.35
	ME	567	1313	40	1001	644	458	10	1	4034	.61
	NH	596	1587	53	957	692	607	12	1	4505	.69
	RI	430	864	16	516	349	308	19	1	2503	.38
	VT	235	736	18	426	313	224	9	-	1961	.30
	*TOTALS	5810	12280	318	8073	6170	4573	174	7	37405	5.70
2	GU	173	161	6	52	49	37	-	-	478	.07
	NJ	2692	5651	144	3408	3084	2021	146	7	17153	2.61
	NY	6973	12028	308	6754	5611	3562	164	4	35404	5.39
	VI	44	118	2	79	55	53	-	-	351	.05
	AE	126	202	5	113	81	40	-	-	567	.09
	*TOTALS	10008	18160	465	10406	8880	5713	310	11	53953	8.22
3	DC	88	130	3	132	98	79	2	3	535	.08
	DE	213	475	11	291	230	182	4	1	1407	.21
	MD	1519	3880	117	2267	2191	1420	53	9	11456	1.74
	PA	3691	8240	226	5045	4365	2833	114	12	24526	3.73
	*TOTALS	5511	12725	357	7735	6884	4514	173	25	37924	5.77
4	AL	1050	4086	63	1719	1621	1011	22	2	9574	1.46
	FL	6867	12640	283	8869	7290	3945	64	3	39961	6.08
	GA	1536	5180	111	2557	2409	1408	33	3	13237	2.02
	KY	1239	3155	61	1407	1146	783	20	1	7812	1.19
	NC	1992	6184	140	2943	2715	1628	35	2	15639	2.38
	PR	4450	2551	45	699	547	253	3	1	8549	1.30
	SC	698	2135	33	1303	1019	608	58	2	5856	.89
	TN	1507	5274	110	2228	2236	1355	35	3	12748	1.94
	VA	2085	5508	144	3049	2912	1913	33	4	15648	2.38
	AA	39	47	2	31	13	6	-	-	138	.02
	*TOTALS	21463	46760	992	24805	21908	12910	303	21	129162	19.67
5	AR	633	2486	42	1011	991	646	14	1	5824	.89
	LA	930	2608	40	1410	1324	777	24	3	7116	1.08
	MS	553	1670	20	829	781	445	8	2	4308	.66
	NM	388	1781	32	857	853	537	10	-	4458	.68
	OK	1136	3412	58	1479	1445	855	25	1	8411	1.28
	TX	4440	14735	288	7619	7215	4340	96	7	38740	5.90
	*TOTALS	8080	26692	480	13205	12609	7600	177	14	68857	10.48
6	CA	17234	41732	628	16332	15295	7996	324	14	99555	15.16
	HI	698	1123	15	568	503	293	12	3	3215	.49
	AP	120	176	2	78	44	45	3	7	475	.07
	FM	1	1	.00	-	-	-	-	-	-	-
	MP	8	42	3	14	18	20	-	-	105	.02
	PW	-	-	-	-	1	-	-	1	2	.00
	TT	1	-	-	1	2	6	1	-	11	.00
	*TOTALS	18062	43073	648	16994	15862	8360	340	25	103364	15.74
7	AK	451	997	26	631	519	304	8	5	2941	.45
	AZ	1263	5497	99	2548	2334	1327	19	1	13088	1.99
	ID	403	1341	32	705	567	297	9	-	3354	.51
	MT	365	880	21	569	424	281	12	-	2552	.39
	NV	367	1429	21	800	621	362	10	-	3610	.55
	OR	1619	4207	109	2602	2012	1133	28	1	11711	1.78
	UT	766	3471	56	732	753	440	10	2	6230	.95
	WA	3186	8546	194	4389	3511	2181	50	4	22061	3.36
	WY	220	579	24	283	220	171	4	-	1501	.23
	*TOTALS	8640	26947	582	13259	10961	6496	150	13	67048	10.21
8	AS	11	17	1	12	7	10	-	-	58	.01
	MI	2670	7436	161	4228	3540	2042	71	1	20149	3.07
	OH	4169	12237	251	5477	4781	2909	129	1	29954	4.56
	WV	891	2452	44	924	711	508	15	2	5547	.84
	*TOTALS	7741	22142	457	10641	9039	5469	215	4	55708	8.48
9	IL	3608	8321	139	4771	4077	2448	126	13	23503	3.58
	IN	2110	5732	87	2722	2350	1396	82	-	14479	2.20
	WI	1304	3474	85	2158	1768	1070	38	-	9897	1.51
	*TOTALS	7022	17527	311	9651	8195	4914	246	13	47879	7.29
10	CO	1343	4009	84	2133	1939	1122	23	-	10653	1.62
	IA	1073	2056	41	1476	1391	673	33	2	6745	1.03
	KS	1052	2539	85	1546	1108	708	29	1	7068	1.08
	MN	1316	3446	83	2304	1933	1083	49	-	10214	1.56
	MO	1553	4120	81	2597	2184	1274	49	1	11859	1.81
	ND	254	542	15	365	242	152	7	-	1577	.24
	NE	500	1229	26	957	764	366	23	-	3865	.59
	SD	179	457	13	359	307	156	10	-	1481	.23
	*TOTALS	7270	18398	428	11737	9868	5534	223	4	53462	8.14
Grand Total		99720	244824	5039	126611	111735	66343	2315	139	656726	100.00
Percent of total licenses		15.18%	37.28%	.77%	19.28%	17.01%	10.10%	.35%	.02%		

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W6SAI and Stuart D.
Cowan W2LX

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ISBN 0-8230-8703-4.
\$11.95

BEAM ANTENNA HANDBOOK

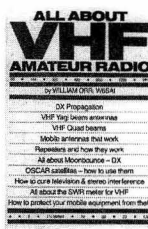
Everything you need to know about beam design, construction, operation.
New computer-aided Yagi designs that give you maximum gain in minimum space.
New data for long 2-1/2 HP and VHF beams for the new 15, 15 & 24 kHz bands.
How to tell if a beam is working properly; compare beams for different locations.
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by William I. Orr
W6SAI and Stuart D.
Cowan W2LX

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ALL ABOUT VHF AMATEUR RADIO

This new handbook covers VHF propagation and DX, the VHF repeater and how it works for you, VHF moonbounce communication, and amateur satellite communication. It discusses vertical and horizontal mobile antennas, tells almost everything about coaxial cables, and describes VHF beam antennas you can build yourself. It also includes information on SWR measurements, VHF interference and how to suppress it, and even the proper care of Ni-cad batteries. This is a complete handbook of VHF radio for amateurs.
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THE RADIO AMATEUR ANTENNA HANDBOOK

by William I. Orr
W6SAI and Stuart D.
Cowan W2LX

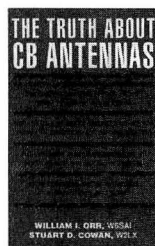
This clearly written handbook contains a wealth of information about amateur antennas, from beams to baluns, tuners, and towers. The exclusive "Truth Table" gives you the actual dB gain of 10 popular antenna types. Describes how to build multiband vertical and horizontal antennas, Quads, Delta Quads, Mini-Quads, a Monster Quad, DX "slopers," triband beams, and VHF Quagi and log periodic Yagi beams. Dimensions are given for all antennas in English and metric units. Covers radials, coaxial cable loss, "bar-gain" coax, baluns, SWR meters, wind loading, tower hazards, and the advantages and disadvantages of crank-up tilt-over towers.
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by William I. Orr
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Now—another great handbook joins the famous Cubical Quad and Beam Antenna Handbooks. Provides complete instructions for building tested wire antennas from 2 through 160 meters: horizontal, vertical, multiband traps, and beam antennas. Describes a 3-band Novice dipole with only one feedline; the "folded Marconi" antenna for 40, 80, or 160 meters; "invisible" antennas for difficult locations—hidden, disguised, and disappearing antennas (the Dick Tracy Special, the CIA Special). Covers antenna tuners and baluns, and gives clear explanations of radiation resistance, impedance, radials, ground systems, and lightning protection. This is a truly practical handbook.
ISBN 0-8230-8707-7.
\$11.95

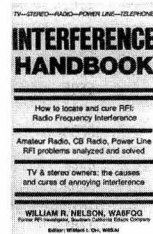


THE TRUTH ABOUT CB ANTENNAS

by William I. Orr
W6SAI and Stuart D.
Cowan W2LX

Contains everything the CB'er needs to know to buy or build, install, and adjust efficient CB antennas for strong, reliable signals. A unique "Truth Table" shows the dB gain from 10 of the most popular CB antennas. The antenna is the key to clear, reliable communication but most CB antennas do not work near peak

efficiency. Now, for the first time, this handbook gives clear informative instructions on antenna adjustment, exposes false claims about inferior antennas, and helps you make your antenna work. This handbook features exclusive and complete coverage of the "Monster Quad" beam, the "King" of CB antennas.
ISBN 0-8230-8708-5.
\$11.95

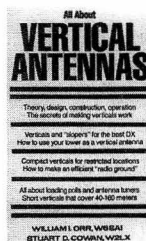


INTERFERENCE HANDBOOK

by William R. Nelson
W6FQG, edited by
William I. Orr W6SAI

This timely book covers every radio frequency interference (RFI) problem, with solutions based on years of practical experience. Covers amateur radio, CB radio, mobile, telephone, power line, CATV, and computer problems with proven solutions. This useful handbook contains case histories and valuable tips for stereo and TV owners to cure interference.
ISBN 0-8230-8709-3.
\$11.95

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ALL ABOUT VERTICAL ANTENNAS

by William I. Orr
W6SAI and Stuart D.
Cowan W2LX

Properly designed, built, and installed vertical antennas do a fine job in small places. This clear, well-illustrated book covers the design, construction, installation, and operation of 52 vertical antennas: efficient Marconi antennas for 80 and 160 meters, multiband verticals, vertical loops, phased arrays, and shunt-fed towers. Also described are "radio" and electrical grounds, matching systems, tuners, loading coils, and TVI, plus the precautions necessary to protect yourself, your home, and your equipment from lightning damage... and much more! It's the most practical and authoritative vertical handbook in print.
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CENSUS OF AMATEUR RADIO LICENSES OF THE WORLD*

Prefix	Country	Number of Radio Amateur Licenses Listed	Prefix	Country	Number of Radio Amateur Licenses Listed	Prefix	Country	Number of Radio Amateur Licenses Listed
AP	PAKISTAN	128	J3	GRENADA, WINDWARD ISLANDS	70	XU	CAMBODIA	9
AY-AZ	ARGENTINA	18	J5	GUINEA BISSAU	7	XV	VIETNAM	5
A2	BOTSWANA	48	J6	ST. LUCIA, WINDWARD ISLANDS	182	XW	LAOS	5
A3	TONGA	95	J7	DOMINICA, WINDWARD ISLANDS	112	XX	MACAO	40
A4	OMAN	100	J8	ST. VINCENT, WINDWARD ISLANDS	61	XY, XZ	MYANMAR	2
A5	BHUTAN	5	LA-LN	NORWAY	5938	YB-YH	INDONESIA	7903
A6	UNITED ARAB	4	LO-LW	ARGENTINA	32629	YI	IRAQ	42
A7	QATAR	49	LX	LUXEMBOURG	520	YJ	VANUATU	23
A9	BAHRAIN	67	LY	LITHUANIA	1212	YK	SYRIA	14
BA-BZ	CHINA	83	LZ	BULGARIA	1646	YL	LATVIA	535
BV	TAIWAN	609	OA-OC	PERU	2165	YN	NICARAGUA	203
CA-CE	CHILE	7109	OD	LEBANON	106	YO-YR	ROMANIA	3801
CM, CO	CUBA	1399	OE	AUSTRIA	6781	YS	EL SALVADOR	413
CN	MOROCCO	225	OF-OI	FINLAND	4743	YT, YU, YZ	YUGOSLAVIA	6450
CP	BOLIVIA	1948	OH<	ALAND IS., FINLAND	46	YV-YY	VENEZUELA	20745
CQ-CU	PORTUGAL	3117	OK-OL	CZECH REPUBLIC	5678	YV<	AVES IS., VENEZUELA	4
CS3, CT3	MADEIRA IS., PORTUGAL	50	OM	SLOVAK REPUBLIC	22	ZA	ALBANIA	47
CU	AZORES IS., PORTUGAL	479	ON-OT	BELGIUM	5053	ZBZ	GIBRALTAR	55
CV-CX	URUGUAY	3524	OX	GREENLAND	102	ZC4	CYPRUS	23
C2	NAURU	18	OY	FAROE	117	ZD7	ST. HELENA IS.	17
C3	ANDORRA	182	OZ	DENMARK	9769	ZD8	ASCENSION IS.	50
C5	THE GAMBIA	20	PA-PI	NETHERLANDS	14981	ZD9	TRISTAN DA CUNHA ISLAND	13
C6	BAHAMA IS.	69	PJ	CURACAO, NETHERLANDS ANTILLES	61	ZD9	GOUGH ISLAND	1
C8, C9	MOZAMBIQUE	6	PJ	BONAIRE, NETHERLANDS ANTILLES	2	ZF	CAYMAN IS.	153
DA-DP	FEDERAL REPUBLIC OF GERMANY	78581	PJ	SINT EUSTATIUS, NETHERLANDS ANTILLES	10	ZK1	COOK ISLANDS, NEW ZEALAND	80
DU-DZ	PHILIPPINES	4145	PJ	SABA, NETHERLANDS ANTILLES	1	ZK2	NIUE ISLAND, NEW ZEALAND	16
D2, D3	ANGOLA	16	PJ	SINT MAARTEN, NETHERLANDS ANTILLES	28	ZK3	TOKELAU ISLAND, NEW ZEALAND	4
D4	CAPE VERDE	4	PP-PY	BRAZIL	27623	ZL, ZM	NEW ZEALAND	6387
D6	COMOROS	29	PP<-PY<	FERNANDO DE NORONHA IS., BRAZIL	13	ZP	PARAGUAY	1182
EA-EH	SPAIN	40355	PP<-PY<	TRINIDADE & MARTIN VAZ IS., BRAZIL	4	ZR-ZU	REPUBLIC OF SOUTH AFRICA	5118
EA6-EH6	BALEARIC	1075	PZ	SURINAME	98	ZX, ZY	BRAZIL	3
EA8-EH8	CANARY	2836	P2	PAPUA NEW GUINEA	236	Z2	ZIMBABWE	99
EA9-EH9	CEUTA & MELILLA, SPAIN	608	P4	ARUBA	91	2M	SCOTLAND, U.K.	61
EI, EJ	IRELAND	2160	R, U	RUSSIA	29260	3A	MONACO	61
EJ	ARAN IS., IRELAND	8	SA-SM	SWEDEN	12848	3B6	AGALEGA IS.	4
EK	ARMENIA	4	SN-SR	POLAND	9246	3B7	ST. BRANDON IS.	4
EL	LIBERIA	147	ST	SUDAN	6	3B8	MAURITIUS IS.	44
EM-EO	UKRAINE	4	SU	EGYPT	39	3B9	RODRIGUEZ IS.	6
EP-EQ	IRAN	32	SV-SZ	GREECE	1953	3C	EQUATORIAL GUINEA	10
ER	MOLDOVA	7	S2	BANGLADESH	5	3D2	FIJI IS.	96
ES	ESTONIA	735	S5	SLOVENIA	4856	3V	TUNISIA	4
ET	ETHIOPIA	2	S7	SEYCHELLES	28	3W	VIETNAM	3
EU-EW	BELARUS	45	S8	TRANSKEI	10	4F	PHILIPPINES	31
EX	KYRGYZSTAN	2	S9	SAO TOME & PRINCIPE	4	4J, 4K	AZERBAIJAN	23
EY	TAJIKISTAN	63	TA-TC	TURKEY	588	4L	GEORGIA	14
EZ	TURKMENISTAN	44	TE, TI	COSTA RICA	1464	4N4, 404	BOSNIA	40
F	FRANCE	23698	TI9	COCOS IS., COSTA RICA	15	4S	SRI LANKA	217
FG	GUADELOUPE	119	TF	ICELAND	136	4U	UNITED NATIONS	2
FH	MAYOTTE	11	TD, TG	GUATEMALA	562	4U	UNITED NATIONS	2
FJ	ST. BARTHELEMY	6	TJ	CAMEROON	23	4X, 4Z	ISRAEL	1202
FK	NEW CALEDONIA	137	TK	CORSICA	166	5A	LIBYA	2
FM	MARTINIQUE	120	TL	CENTRAL AFRICAN REPUBLIC	28	5B	CYPRUS	671
FO	FRENCH POLYNESIA	164	TN	CONGO	8	5H1	ZANZIBAR, TANZANIA	1
FP	ST. PIERRE & MIQUELON IS.	16	TP	COUNCIL OF EUROPE	2	5H-5I	TANZANIA	29
FR	REUNION IS.	111	TR	GABON	56	5N, 5O	NIGERIA	411
FJ, FS	SAINT MARTIN	4	TT	CHAD	7	5R, 5S	MADAGASCAR	6
FY	FRENCH GUIANA	136	TU	IVORY COAST	362	5T	MAURITANIA	16
G, GX	ENGLAND	60084	TV-TX	FRANCE	1	5U	NIGER	18
GD, GT	ISLE OF MAN	183	TY	BENIN	9	5V	TOGO	12
GH	JERSEY	1	TZ	MALI	17	5W	WESTERN SAMOA	155
GI, GN	NORTHERN IRELAND, U.K.	1394	T2	TUVALU	22	5X	UGANDA	7
GJ	JERSEY	92	T3	KIRIBATI	84	5Y, 5Z	KENYA	170
GM, GS	SCOTLAND, U.K.	3482	T5	SOMALI REPUBLIC	4	6T, 6U	SUDAN	4
GU, GP	GUERNSEY	120	T7	REPUBLIC OF SAN	61	6V-6W	SENEGAL	163
GW, GC	WALES, U.K.	3392	T9	BOSNIA & HERZEGOVINA	304	6Y	JAMAICA	194
HA, HG	HUNGARY	5080	UR-UZ	UKRAINE	78	7J-7N	JAPAN	443
HB	SWITZERLAND	4843	VE	CANADA	28977	7P	LESOTHO	24
HB<	LIECHTENSTEIN	20	VK	AUSTRALIA	22965	7Q	MALAWI	25
HC, HD	ECUADOR	1936	VO1	NEWFOUNDLAND, CANADA	966	7T-7Y	ALGERIA	65
HC8, HD8	GALAPAGOS IS., ECUADOR	38	VO2	LABRADOR, CANADA	83	7Z	SAUDI ARABIA	3
HH	HAITI	122	VP2E	ANGUILLA, LEEWARD IS.	41	8J-8N	JAPANESE SPECIAL STATIONS	43
HI	DOMINICAN REPUBLIC	1963	VP2M	MONTserrat, LEEWARD IS.	141	8P	BARBADOS	274
HJ-HK	COLOMBIA	8137	VP2V	BRITISH VIRGIN IS., LEEWARD IS.	53	8Q	MALDIVES IS.	47
HJ<, HK<	SAN ANDRES & PROVIDENCIA	117	VP5	TURKS & CAICOS ISLANDS	33	8R	GUYANA	46
HL	SOUTH KOREA	5927	VP8	FALKLAND & BRITISH S. ATLANTIC IS.	801	9A	CROATIA	3307
HO-HP	PANAMA	1799	VP9	BERMUDA	153	9G	GHANA	180
HQ-HR	HONDURAS	247	VO9	CHAGOS ARCHIPELAGO	39	9H	MALTA	296
HS	THAILAND	418	VR6	PITCAIRN IS.	12	9I, 9J	ZAMBIA	46
HU	EL SALVADOR	1	VR2, VS6	HONG KONG	344	9K	KUWAIT	202
HV	VATICAN CITY	10	VU	INDIA	5523	9L	SIERRA LEONE	37
HZ	SAUDI ARABIA	4	VY1, VY5	YUKON TERRITORY, CANADA	91	9M2, 9M4	MALAYSIA	270
H4	SOLOMON IS.	22	VY2	PRINCE EDWARD IS., CANADA	210	9M6	SABAH, MALAYSIA	56
I	ITALY	28833	VY9	CANADA	6	9M8	SARAWAK, MALAYSIA	42
IA	TUSCAN ARCHIPELAGO, ITALY	12	V2	ANTIGUA & BARBUDA, LEEWARD IS.	53	9N	NEPAL	4
IC	CAPRI & ISCHIA IS., ITALY	46	V3	BELIZE	282	9Q-9T	ZAIRE	10
IM<-IS<	SARDINIA, ITALY	455	V4	ST. KITTS-NEVIS, LEEWARD IS.	65	9U	BURUNDI	2
IT	SICILY, ITALY	1205	V5	NAMIBIA	86	9V	SINGAPORE	98
JA-JS	JAPAN	36762	V6	MICRONESIA	59	9X	RWANDA	31
JD1	OGASAWARA IS., JAPAN	263	V7	MARSHALL ISLANDS	65	9Y, 9Z	TRINIDAD & TOBAGO	285
JT-JV	MONGOLIA	35	V8	BRUNEI	80			
JW	SVALBARD IS., NORWAY	50	XA-XI	MEXICO	5876			
JX	JAN MAYEN IS., NORWAY	29	XP	GREENLAND	1			
JY	JORDAN	185	XQ	CHILE	99			
J2	DJIBOUTI	43	XT	BURKINA-FASO	28			

*From the 1995 RADIO AMATEUR CALLBOOKS.

CENSUS OF U.S. AMATEURS BY STATE AND ZIP CODE

This table, compiled from the 1995 North American Callbook, lists the current U.S. amateur radio licenses for each ZIP code prefix (the first three digits of the Zip code). Zip codes not shown have not been assigned by the U.S. Postal Service. The official two letter abbreviation is shown to the right of the state or territorial name.

ALABAMA	AL
1.46% OF U.S. AMATEUR POPULATION	
ZIP 350	828 LICENSES
351	672
352	1,266
354	329
355	271
356	884
357	493
358	1,042
359	563
360	296
361	379
362	382
363	453
364	158
365	487
366	543
367	219
368	302
369	7

ALASKA	AK
0.45% OF U.S. AMATEUR POPULATION	
ZIP 995	1,183 LICENSES
996	534
997	821
998	306
999	97

ARIZONA	AZ
1.98% OF U.S. AMATEUR POPULATION	
ZIP 850	2,633 LICENSES
852	3,298
853	1,942
854	1
855	365
856	803
857	2,049
859	230
860	432
863	749
864	557
865	29

ARIZONA	AZ
1.98% OF U.S. AMATEUR POPULATION	
ZIP 850	2,633 LICENSES
852	3,298
853	1,942
854	1
855	365
856	803
857	2,049
859	230
860	432
863	749
864	557
865	29

ARKANSAS	AR
0.88% OF U.S. AMATEUR POPULATION	
ZIP 716	190 LICENSES
717	197
718	137
719	489
720	693
721	610
722	484
723	278
724	527
725	246
726	473
727	681
728	349
729	434

CALIFORNIA	CA
15.16% OF U.S. AMATEUR POPULATION	
ZIP 900	3,754 LICENSES
901	1
902	3,936
903	158
904	415
905	761
906	2,133
907	2,514
908	1,524
909	1
910	1,302
911	610
912	705
913	4,340
914	803
915	453
916	491
917	5,145
918	201
919	497
920	4,222
921	3,880
922	1,357
923	4,189
924	434
925	2,138
926	7,165
927	1,825
928	1,001
929	1
930	2,132
931	854
932	1,366
933	631
934	1,590
935	1,889
936	774
937	789
938	2
939	775
940	3,553
941	1,035
943	504
944	334

945	5,755
946	580
947	428
948	314
949	1,237
950	3,382
951	2,616
952	882
953	1,669
954	1,637
955	569
956	3,297
957	404
958	1,621
959	1,658
960	1,057
961	254

COLORADO	CO
1.62% OF U.S. AMATEUR POPULATION	
ZIP 800	1,483 LICENSES
801	1,213
802	1,540
803	605
804	674
805	1,273
806	243
807	191
808	281
809	1,412
810	494
811	106
812	260
813	168
814	176
815	292
816	242

CONNECTICUT	CT
1.36% OF U.S. AMATEUR POPULATION	
ZIP 060	1,817 LICENSES
061	625
062	395
063	841
064	2,267
065	434
066	323
067	733
068	1,300
069	209

DELEWARE	DE
0.21% OF U.S. AMATEUR POPULATION	
ZIP 197	437 LICENSES
198	456
199	514

DIST. OF COLUMBIA	DC
0.09% OF U.S. AMATEUR POPULATION	
ZIP 200	465 LICENSES
201	28
203	47
205	37

FLORIDA	FL
6.11% OF U.S. AMATEUR POPULATION	
ZIP 320	1,592 LICENSES
321	673
322	1,535
323	658
324	706
325	1,898
326	1,449
327	2,873
328	1,246
329	2,421
330	3,338
331	4,067
332	45
333	1,730
334	2,985
335	2,557
336	1,080
337	1,004
338	1,270
339	2,034
340	141
342	1,238
343	1
344	390
345	1
346	2,032
347	427
349	708

GEORGIA	GA
2.02% OF U.S. AMATEUR POPULATION	
ZIP 300	2,524 LICENSES
301	1,581
302	2,292
303	1,217
304	160
305	909
306	485
307	588
308	201
309	318
310	786

311	4
312	289
313	169
314	350
315	390
316	164
317	519
318	92
319	199
GUAM	GU
0.09% OF U.S. AMATEUR POPULATION	
ZIP 969	597 LICENSES

HAWAII	HI
0.50% OF U.S. AMATEUR POPULATION	
ZIP 967	2,111 LICENSES
968	1,162
IDAHO	ID
0.51% OF U.S. AMATEUR POPULATION	
ZIP 832	321 LICENSES
833	249
834	494
835	190
836	703
837	707
838	690

ILLINOIS	IL
3.58% OF U.S. AMATEUR POPULATION	
ZIP 600	3,968 LICENSES
601	3,116
602	139
603	158
604	2,202
605	1,848
606	2,252
607	17
609	235
610	670
611	533
612	494
613	346
614	379
615	575
616	436
617	511
618	692
619	229
620	779
622	899
623	348
624	388
625	492
626	354
627	305
628	608
629	530

INDIANA	IN
2.20% OF U.S. AMATEUR POPULATION	
ZIP 460	1,074 LICENSES
461	1,049
462	1,754
463	1,295
464	169
465	1,099
466	351
467	902
468	913
469	1,029
470	227
471	489
472	376
473	937
474	627
475	373
476	327
477	383
478	465
479	640

IOWA	IA
1.03% OF U.S. AMATEUR POPULATION	
ZIP 500	453 LICENSES
501	361
502	311
503	497
504	208
505	315
506	308
507	126
508	99
510	165
511	220
512	47
513	171
514	63
515	284
516	80
520	202
521	81
522	297
523	440
524	554
525	303
526	470

527	441
528	249
KANSAS	KS
1.08% OF U.S. AMATEUR POPULATION	
ZIP 660	1,004 LICENSES
661	262
662	856
664	222
665	368
666	473
667	294
668	154
669	100
670	544
671	360
672	900
673	248
674	462
675	308
676	175
677	85
678	210
679	43

KENTUCKY	KY
1.19% OF U.S. AMATEUR POPULATION	
ZIP 400	421 LICENSES
401	260
402	1,399
403	592
404	207
405	654
406	98
407	195
408	79
409	134
410	667
411	417
412	76
413	38
414	17
415	194
416	151
417	55
418	43
420	543
421	321
422	173
423	350
424	335
425	110
426	46
427	237

LOUISIANA	LA
1.08% OF U.S. AMATEUR POPULATION	
ZIP 700	1,048 LICENSES
701	583
703	285
704	731
705	606
706	315
707	571
708	803
710	368
711	615
712	547
713	309
714	335

MAINE	ME
0.61% OF U.S. AMATEUR POPULATION	
ZIP 039	138 LICENSES
040	974
041	243
042	411
043	296
044	511
045	215
046	372
047	246
048	157
049	471

MARYLAND	MD
1.74% OF U.S. AMATEUR POPULATION	
ZIP 206	671 LICENSES
207	1,658
208	1,712
209	729
210	1,760
211	1,037
212	1,448
214	379
215	268
216	351
217	946
218	315
219	165

MASSACHUSETTS	MA
2.35% OF U.S. AMATEUR POPULATION	
ZIP 010	1,099 LICENSES
011	229
012	474
013	234
014	753

015	866
016	274
017	1,660
018	1,771
019	1,252
020	1,004
021	2,637
022	24
023	768
024	121
025	414
026	775
027	1,105

MICHIGAN	MI
3.07% OF U.S. AMATEUR POPULATION	
ZIP 480	3,066 LICENSES
481	3,189
482	879
483	927
484	1,091
485	460
486	955
487	373
488	1,155
489	299
490	1,817
491	342
492	814
493	626
494	1,184
495	788
496	638
497	578
498	622
499	346

MINNESOTA	MN
1.55% OF U.S. AMATEUR POPULATION	
ZIP 550	964 LICENSES
551	1,606
552	2
553	1,393
554	2,172
556	57
557	484
558	360
559	769
560	490
561	143
562	269
563	435
564	305
565	364
566	250
567	151

MISSISSIPPI	MS
0.66% OF U.S. AMATEUR POPULATION	
ZIP 386	357 LICENSES
387	129
388	481
389	96
390	293
391	417
392	329
393	306

CENSUS OF U.S. AMATEURS BY STATE AND ZIP CODE

596 207
597 503
598 421
599 273

NEBRASKA NE
0.59% OF U.S. AMATEUR POPULATION
ZIP 680 398 LICENSES

681 935
683 169
684 163
685 677
686 185
687 275
688 331
689 190
690 81
691 259
692 28
693 174

NEVADA NV
0.55% OF U.S. AMATEUR POPULATION
ZIP 890 597 LICENSES

891 1,314
893 23
894 734
895 626
897 231
898 85

NEW HAMPSHIRE NH
0.69% OF U.S. AMATEUR POPULATION
ZIP 030 1,679 LICENSES

031 393
032 585
033 193
034 316
035 196
036 50
037 252
038 901

NEW JERSEY NJ
2.61% OF U.S. AMATEUR POPULATION
ZIP 070 2,720 LICENSES

071 255
072 205
073 150
074 1,313
075 167
076 1,225
077 1,524
078 991
079 679
080 2,626
081 249
082 541
083 515
084 70
085 597
086 474
087 1,009
088 1,728
089 115

NEW MEXICO NM
0.68% OF U.S. AMATEUR POPULATION
ZIP 870 328 LICENSES

871 1,554
873 46
874 146
875 583
877 49
878 92
879 51
880 800
881 125
882 369
883 288
884 27

NEW YORK NY
5.39% OF U.S. AMATEUR POPULATION
ZIP 100 1,175 LICENSES

101 70
102 11
103 1,638
104 805
105 1,317
106 107
107 349
108 119
109 970
110 550
111 147
112 1,619
113 1,194
114 738
115 1,357
116 125
117 3,904
118 233
119 596
120 982
121 703
122 276
123 533
124 489

125 1,150
126 266
127 209
128 502
129 453
130 1,114

131 507
132 565
133 437
134 676
135 170
136 555

137 477
138 559
139 266
140 1,220
141 582
142 974
143 117
144 931
145 1,006
146 1,217
147 459
148 830
149 152

NORTH CAROLINA NC
2.38% OF U.S. AMATEUR POPULATION
ZIP 270 483 LICENSES

271 510
272 1,040
273 551
274 566
275 1,394
276 1,021
277 365
278 724
279 299
280 993
281 1,023
282 890
283 1,139
284 597
285 866
286 1,185
287 1,537
288 347
289 109

NORTH DAKOTA ND
0.24% OF U.S. AMATEUR POPULATION
ZIP 580 137 LICENSES

581 234
582 255
583 117
584 134
585 307
586 153
587 196
588 44

OHIO OH
4.56% OF U.S. AMATEUR POPULATION
ZIP 430 1,576 LICENSES

431 743
432 1,420
433 522
434 403
435 773
436 815
437 440
438 171
439 597
440 2,528
441 2,501
442 1,619
443 733
444 1,039
445 417
446 1,117
447 529
448 815
449 328
450 1,589
451 934
452 2,210
453 1,895
454 1,729
455 253
456 839
457 437
458 982

OKLAHOMA OK
1.28% OF U.S. AMATEUR POPULATION
ZIP 730 1,513 LICENSES

731 1,423
732 165
733 579
734 114
735 311
736 105
737 69
738 1,302
739 1,129
740 276
741 405
742 196
743 171

747 164
748 366
749 123

OREGON OR
1.78% OF U.S. AMATEUR POPULATION
ZIP 970 2,176

971 980
972 2,260
973 1,685
974 1,937
975 1,108
976 494
977 509
978 515
979 47

PENNSYLVANIA PA
3.73% OF U.S. AMATEUR POPULATION
ZIP 150 1,209 LICENSES

151 815
152 1,346
153 336
154 298
155 151
156 648
157 274
158 219
159 269
160 432
161 547
162 135
163 436
164 281
165 430
166 384
167 132
168 377
169 231
170 1,094
171 277
172 227
173 678
174 331
175 554
176 283
177 319
178 445
179 224
180 901
181 290
182 268
183 324
184 432
185 190
186 426
187 244
188 282
189 1,001
190 2,802
191 1,430
192 1
193 863
194 1,034
195 337
196 319

PUERTO RICO PR
1.30% OF U.S. AMATEUR POPULATION
ZIP 006 4,542 LICENSES

007 2,435
008 354
009 1,569

RHODE ISLAND RI
0.38% OF U.S. AMATEUR POPULATION
ZIP 028 1,876 LICENSES

029 627

SOUTH CAROLINA SC
0.89% OF U.S. AMATEUR POPULATION
ZIP 290 456 LICENSES

291 516
292 415
293 521
294 933
295 517
296 1,579
297 476
298 291
299 152

SOUTH DAKOTA SD
0.23% OF U.S. AMATEUR POPULATION
ZIP 570 305 LICENSES

571 190
572 196
573 146
574 130
575 88
576 28
577 398

TENNESSEE TN
1.94% OF U.S. AMATEUR POPULATION
ZIP 370 1,117 LICENSES

371 732
372 687
373 1,557

374 491
375 1
376 1,168
377 1,011
378 1,412
379 1,142

380 481
381 1,583
382 232
383 527
384 236
385 371

TEXAS TX
5.90% OF U.S. AMATEUR POPULATION
ZIP 750 3,980 LICENSES

751 1,218
752 1,926
753 25
754 680
755 316
756 635
757 679
758 265
759 372
760 2,541
761 1,745
762 664
763 488
764 206
765 650
766 305
767 314
768 166
769 286
770 3,394
772 112
773 1,399
774 957
775 2,090
776 625
777 249
778 460
779 317
780 605
781 448
782 2,283
783 319
784 537
785 685
786 1,004
787 1,600
788 226
789 147
790 371
791 351
792 67
793 262
794 466
795 211
796 343
797 745
798 105
799 921

UTAH UT
0.95% OF U.S. AMATEUR POPULATION
ZIP 840 2,476 LICENSES

841 1,445
843 521
844 328
845 171
846 813
847 476

VERMONT VT
0.30% OF U.S. AMATEUR POPULATION
ZIP 050 223 LICENSES

051 109
052 129
053 106
054 776
055 1
056 265
057 209
058 141
059 2

VIRGINIA VA
2.38% OF U.S. AMATEUR POPULATION
ZIP 220 1,917 LICENSES

221 1,926
222 438
223 626
224 330
225 324
226 372
227 145
228 267
229 477
230 336
231 538
232 885
233 452
234 1,032
235 397
236 800
237 167
238 341

239 141
240 843
241 461
242 467
243 385
244 364
245 1,003
246 186

VIRGIN ISLAND VI
0.05% OF U.S. AMATEUR POPULATION
ZIP 008 354 LICENSES

WASHINGTON WA
3.36% OF U.S. AMATEUR POPULATION
ZIP 980 4,551 LICENSES

981 2,852
982 3,195
983 2,850
984 1,086
985 1,493
986 1,592
987 69
988 646
989 683
990 364
991 522
992 1,065
993 1,035
994 58

WEST VIRGINIA WV
0.84% OF U.S. AMATEUR POPULATION
ZIP 247 290 LICENSES

248 207
249 121
250 176
251 254
252 125
253 361
254 251
255 349
256 222
257 262
258 299
259 160
260 433
261 541
262 261
263 298
264 170
265 420
266 97
267 123
268 127

WISCONSIN WI
1.51% OF U.S. AMATEUR POPULATION
ZIP 530 1,120 LICENSES

531 1,132
532 1,209
534 268
535 796
537 573
538 51
539 361
540 215
541 377
542 254
543 295
544 885
545 295
546 321
547 606
548 368
549 771

WYOMING WY
0.23% OF U.S. AMATEUR POPULATION
ZIP 820 414 LICENSES

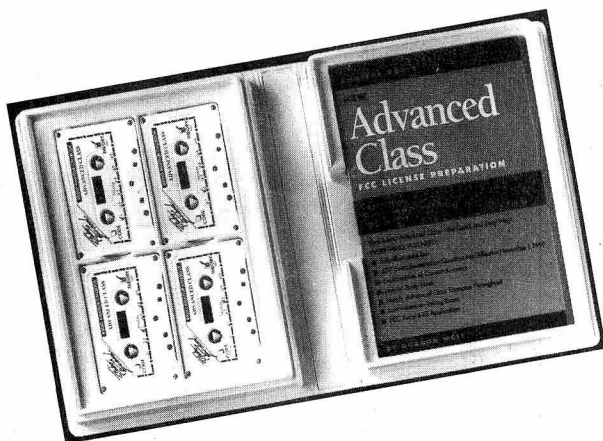
821 3
822 94
823 65
824 110
825 93
826 250
827 101
828 111
829 173
830 36
831 51

APO FPO (MILITARY)
0.18% OF U.S. AMATEUR POPULATION
ZIP 090 164 LICENSES

091 143
092 58
093 11
094 43
095 65
096 37
097 25
098 22
340 141
962 85
963 169
964 12
965 86
966 124

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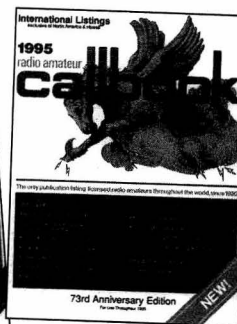
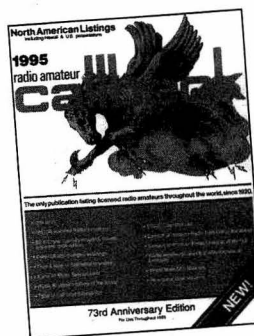
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D4	Cape Verde	OY	Faroes	ZD7	St Helena
D6	Comoros	OZ	Denmark	ZD8	Ascension Is
EA-EH	Spain	PA-P1	Netherlands	ZD9	Tristan da Cunha & Gough Is
EA6-EH6	Balearic Is	PJ2,4,9	Bonaire, Curacao (Neth Antilles)	ZF	Cayman Is
EA8-EH8	Canary Is	PJ5-8	Sint Maarten, Saba, & Sint Eustatius Is	ZK1	North Cook Is
EA9-EH9	Ceuta & Melilla	PP-PY	Brazil	ZK1	South Cook Is
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EK	Armenia	PP0-PY0	St Peter & St Paul Rocks	ZK3	Tokelau Is
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ER	Moldova	P2	Papua New Guinea	ZL8	Kermadec Is
ES	Estonia	P4	Aruba	ZL9	Auckland & Campbell Is
ET	Ethiopia	SA-SM	Sweden	ZP	Paraguay
EU,EVEW	Belarus	SN-SR	Poland	ZR-ZU	Rep of South Africa
EX	Kyrgyzstan	ST	Sudan	ZS8	Prince Edward & Marion Is
EY	Tajikistan	ST0	Southern Sudan	Z2	Zimbabwe
EZ	Turkmenistan	SU	Egypt	Z3,4N5,YU5	Macedonia
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F	France	SV/A	Mt Athos	1S	Spratty Is
FG	Guadeloupe	SV5	Dodecanese Is	3A	Monaco
FH	Mayotte	SV9	Crete	3B6,3B7	Agalega & St Brandon Is
FJ,FS	Saint Martin	S2	Bangladesh	3B8	Mauritius Is
FK	New Caledonia	S5,YU3	Slovenia	3B9	Rodriguez Is
FM	Martinique	S7	Seychelles	3C	Equatorial Guinea
FO	Clipperton Is	S9	Sao Tome & Principe	3C0	Annobon Is
FO	French Polynesia	S0	Western Sahara	3D2	Fiji Is
FP	St Pierre & Miquelon	TA-TC	Turkey	3D2	Conway Reef
FR/G	Glorioso Is	TF	Iceland	3D2	Rotuma Is
FR/J,FR/E	Juan de Nova, Europa	TG,TD	Guatemala	3DA	Swaziland
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FT8W	Crozet Is	TJ	Cameroon	3X	Guinea
FT8X	Kerguelen Is	TK	Corsica	3Y	Bouvet
FT8Z	Amsterdam & St Paul Is	TL	Central African Rep	3Y	Peter I Is
FW	Wallis & Futuna Is	TR	Congo	4J,4K	Azerbaijan
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HA,HG	Hungary	T32	East Kiribati (Line Is)	5B	Cyprus
HB	Switzerland	T33	Banaba Is (Ocean Is)	5H-5I	Tanzania
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HC,HD	Ecuador	T7	San Marino	5R-5S	Madagascar
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HZ	Saudi Arabia	VK9M	Mellish Reef	7T-7Y	Algeria
H4	Solomon Is	VK9N	Norfolk Is	8P	Barbados
I	Italy	VK9W	Willis Is	8Q	Maldives
ISO,IMO	Sardinia	VK9X	Christmas Is	8R	Guyana
JA-JS	Japan	VK0	Heard Is	9A,YU2	Croatia
JD1	Minami-Tori-Shima	VK0	Macquarie Is	9G	Ghana
JD1	Ogasawara Is	VP2E	Anguilla	9H	Malta
JT-JV	Mongolia	VP2M	Montserrat	9I,9J	Zambia
JW	Svalbard Is	VP2V	British Virgin Is	9K	Kuwait
JX	Jan Mayen Is	VP5	Turks & Caicos Is	9L	Sierra Leone
JY	Jordan	VP8	Falkland Is	9M2,9M4	West Malaysia
J2	Djibouti	VP8,LU	South Georgia Is	9M6,9M8	East Malaysia
J3	Grenada	VP8,LU	South Orkney Is	9N	Nepal
J5	Guinea-Bissau	VP8,LU	South Sandwich Is	9Q-9T	Zaire
J6	St Lucia	VP8,LU,CE9,HF0,4K1	South Shetland Is	9U	Burundi
J7	Dominica	VP9	Bermuda Is	9V	Singapore
J8	St Vincent & Dependencies	VQ9	Chagos Is	9X	Rwanda
K,W,N,AA-AK	United States of America	VR6	Pitcairn Is	9Y-9Z	Trinidad & Tobago
KC6	(Western Caroline Is) Belau	V56,VR2	Hong Kong		

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INTERNATIONAL "Q" SIGNALS

ABBREVIATIONS	QUESTIONS	ANSWERS OR ADVICE	ABBREVIATIONS	QUESTIONS	ANSWERS OR ADVICE
QRA	What is the name of your station?	The name of my station is...	QSX	Will you listen to...(call sign(s)) on...kHz (or MHz)?	I am listening to [call sign(s)] on...kHz (or MHz).
QRB	How far approximately are you from my station?	The approximate distance between our stations is...nautical miles (or kilometers).	QSY	Shall I change to transmission on another frequency?	Change to transmission on another frequency (or on...kHz (or MHz)).
QRD	Where are you bound and where are you from?	I am bound for...from...	QSZ	Shall I send each word or group or more than once?	Send each word or group twice (or...times).
QRG	Will you tell me my exact frequency (or that of...)?	Your exact frequency (or that of...) is...kHz (or MHz).	QTA	Shall I cancel telegram number... as if it had not been sent?	Cancel telegram number...as if it had not been sent.
QRH	Does my frequency vary?	Your frequency varies.	QTB	Do you agree with my counting of words?	I do not agree with your counting of words. I will repeat the first letter or digit of each word or group.
QRI	How is the tone of my transmission?	The tone of your transmission is 1. Good. 2. Variable. 3. Bad.	QTC	How many telegrams have you to send?	I have...telegrams for you (or for...).
QRK	What is the readability of my signals (or those of...)?	The readability of your signals (or those of...) is... 1. Unreadable. 2. Readable now and then. 3. Readable, but with difficulty. 4. Readable. 5. Perfectly readable.	QTE	What is my TRUE bearing from you? or What is my TRUE bearing from... (call sign)? or What is the TRUE bearing of... (call sign) from...(call sign)?	Your TRUE bearing from me is... degrees (at...hours). or Your TRUE bearing from...(call sign) was...degrees (at...hours). or The TRUE bearing of...(call sign) from (call sign) was... degrees (at...hours).
QRL	Are you busy?	I am busy (or I am busy with...). Please do not interfere.	QTH	Will you send two dashes of ten seconds each followed by your call sign (repeated...times) [on...kHz (or MHz)]? or Will you request...to send two dashes of ten seconds followed by his call sign (repeated...times) on...kHz (or MHz)]?	I am going to send two dashes of ten seconds each followed by my call sign (repeated...times) [on...kHz (or MHz)]. or I have requested...to send two dashes of ten seconds followed by his call sign (repeated...times) on...kHz (or MHz)].
QRM	Are you being interfered with?	I am being interfered with.	QTI	What is your position in latitude and longitude (or according to any other indication)?	My position is...latitude... longitude (or according to any other indication).
QRN	Are you troubled by static?	I am troubled by static.	QTL	What is your TRUE track?	My TRUE track is...degrees.
QRO	Shall I increase power?	Increase power.	QTM	What is your speed?	My speed is...knots (or kilometers per hour).
QRP	Shall I decrease power?	Decrease power.	QTN	What is your TRUE heading?	My TRUE heading is...degrees.
QRQ	Shall I send faster?	Send faster (...words per minute).	QTO	At what time did you depart from... (place)?	I departed from...(place) at... hours.
QRR	Are you ready for automatic operation?	I am ready for automatic operation. Send at...words per minute.	QTP	Have you left dock (or port)? or Are you airborne?	I have left dock (or port). or I am airborne.
QRS	Shall I send more slowly?	Send more slowly (...words per minute).	QTR	Are you going to enter dock (or port)? or Are you going to alight (or land)?	I am going to enter dock (or port). or I am going to alight (or land).
QRT	Shall I stop sending?	Stop sending.	QTS	Can you communicate with my station by means of the International Code of Signals?	I am going to communicate with your station by means of the International Code of Signals.
QRU	Have you anything for me?	I have nothing for you.	QTR	What is the correct time?	The correct time is...hours.
QRV	Are you ready?	I am ready.	QTS	Will you send your call sign for minute(s) now (or at...hours) [on...kHz (or MHz)] so that your frequency may be measured?	I will send my call sign for minute(s) now (or at...hours) [on...kHz (or MHz)] so that my frequency may be measured.
QRW	Shall I inform...that you are calling him on...kHz (or MHz)?	Please inform...that I am calling him on...kHz (or MHz).	QTV	What are the hours during which your station is open?	My station is open from...to... hours.
QRX	When will you call me again?	I will call you again at...hours [on...kHz (or MHz)].	QTV	Shall I stand guard for you on the frequency of...kHz (or MHz) (from...to...hours)?	Stand guard for me on the frequency of...kHz (or MHz) (from...to...hours).
QRY	What is my turn?	Your turn is Number...(relates to communication.)	QTX	Will you keep your station open for further communication with me until further notice (or until... hours)?	I will keep my station open for further communication with you until further notice (or until... hours).
QRZ	Who is calling me?	You are being called by...[on...kHz (or MHz)].	QUA	Have you news of...(call sign)?	Here is news of...(call sign).
QSA	What is the strength of my signals (or those of...)?	The strength of your signals (or those of...) is 1. Scarcely perceptible. 2. Weak. 3. Fairly good. 4. Good. 5. Very good.	QUB	Can you give me, in the following order, information concerning: visibility, height of clouds, direction and velocity of ground wind at...(place of observation)?	Here is the information requested...
QSB	Are my signals fading?	Your signals are fading.	QUC	What is the number (or other indication) of the last message you received from me [or from...(call sign)]?	The number (or other indication) of the last message I received from you [or from...(call sign)] is...
QSD	Is my keying defective?	Your keying is defective.	QUD	Have you received the urgency signal sent by...(call sign of mobile station)?	I have received the urgency signal sent by...(call sign of mobile station) at...hours.
QSG	Shall I send...telegrams at a time?	Send...telegrams at a time.	QUF	Have you received the distress signal sent by...(call sign of mobile station)?	I have received the distress signal sent by...(call sign of mobile station) at...hours.
QSH	What is the charge to be collected per word to...including your internal telegraph charge	The charge to be collected per word to...including my internal telegraph charge is...francs.	QUG	Will you be forced to alight (or land)?	I am forced to alight (or land) immediately. or I shall be forced to alight (or land) at...(position or place).
QSK	Can you hear me between your signals?	I can hear you between my signals.	QUH	Will you give me the present barometric pressure at sea level?	The present barometric pressure at sea level is...(units).
QSL	Can you acknowledge receipt?	I am acknowledging receipt.			
QSM	Shall I repeat the last telegram which I sent you, or some previous telegram?	Repeat the last telegram which you sent me [or telegram(s) number(s) ...].			
QSN	Did you hear me [or...(call sign)] on...kHz (or MHz)?	I did hear you [or...(call sign)] on...kHz (or MHz)?			
QSO	Can you communicate with...direct or by relay?	I can communicate with...direct (or by relay through...).			
QSP	Will you relay to...free of charge?	I will relay to...free of charge.			
QSQ	Have you a doctor on board [or is... (name of person) on board]?	I have a doctor on board [or (name of person) is on board].			
QSU	Shall I send or reply on this frequency [or on...kHz (or MHz)] (with emissions of class...)?	Send or reply on this frequency [or on...kHz (or MHz)] (with emissions of class...).			
QSV	Shall I send a series of V's on this frequency [or...kHz (or MHz)]?	Send a series of V's on this frequency [or...kHz (or MHz)].			
QSW	Will you send on this frequency [or on...kHz (or MHz)] (with emissions of class...)?	I am going to send on this frequency [or on...kHz (or MHz)] (with emissions of class...).			

QSL BUREAUS

A,K,N,W	First Call Area: All calls* W1 QSL Bureau Y.C.C.C. P.O. Box 80216 Springfield, MA 01138-0216 Second Call Area: All calls* AARL 2nd District QSL Bureau N.J.D.X.A. P.O. Box 599 Morris Plains, NJ 07950 Third Call Area: All calls C-CARS, P.O. Box 448 New Kingstown, PA 17072-0448 Fourth Call Area, All Single Letter Prefixes: Mecklenburg A.R.S. Box DX, Charlotte, NC 28220, USA Fourth Call Area, All Two Letter Prefixes Sterling Park Amateur Radio Club, Call Box 599, Sterling Park, VA 20167, USA Fifth Call Area: All Calls ARRL W5 Incoming QSL Bureau, P.O. Box 50625 Midland, TX 79710 Sixth Call Area, All Calls: Sixth (6th) District DX QSL Bureau Box 1460, Sun Valley CA 91352, USA Seventh Call Area, All Calls: Willamette Valley DX Club Inc., Box 555, Portland, OR 97207, USA Eighth Call Area, All Calls: QSL Bureau, Box 182165, Columbus, OH 43218, USA Ninth Call Area, All Calls: Northern Illinois DX Assoc., Box 519, Elmhurst, IL 60126, USA Zero Call Area: All Calls W0 QSL Bureau, P.O. Box 4798 Overland Park, KS 66204 Puerto Rico, All Calls: KP4 QSL Bureau, Box 1061 San Juan, Puerto Rico 00902, USA U.S. Virgin Islands, All Calls: Virgin Islands Amateur Radio Club, GPO Box 11360, Charlotte Amalie, Virgin Islands 00801, USA Hawaiian Islands, All Calls: QSL Bureau, Box 788 Wahiawa, HI 96786, USA Alaska, All Calls: Alaska QSL Bureau, 4304 Garfield St. Anchorage, AK 99503, USA Guam MARC Box 445, Agaña, Guam 96910 SWL - No Outgoing Service Mike Witkowski, WDX9JFT, 4206 Nebel St. Stevens Point, WI 54481 *These bureaus sell envelopes or postage credits. Send an SASE to the bureau for further information.	A2,80 Botswana Amateur Radio Society, Box 1873 Gaborone, Botswana A3 Amateur Radio Club of Tonga, c/o M. Schuster, Box 1078, Nukunono, Tonga A4 Royal Omani Amateur Radio Society, Box 981, Muscat, Oman A7 Qatar Amateur Radio Society, Box 22122, Doha, Qatar A9 ARAB QSL Bureau, Box 22381, Muharrag, Bahrain BA-BZ Chinese Radio Sports Association, Box 6106, Beijing, China BV Chinese Taipei Amateur Radio League, Box 73, Taipei CA-CE,XQ-XR Radio Club of Chile, Box 13630, Santiago 21, Chile CM,CO,T4 Federacion de Radioaficionados de Cuba Box 1, Habana 10100, Cuba CN ARRAM, Box 299, Rabat, Morocco CP Radio Club Boliviano, Box 2800, Cochabamba, Bolivia CQ-CU Rede dos Emissores Portugueses, Rua D. Pedro V 7-4, P-1200 Lisboa, Portugal CV-CX Radio Club Uruguayo, Box 37, Montevideo, Uruguay C3 Unio de Radioaficionados Andorrans, Box 150, La Vella, Andorra C5 Radio Society of The Gambia, c/o J.-M. Voinot, PMB 120, Banjul, Gambia C6 Bahamas Amateur Radio Society, Box SS-6004, Nassau, Bahamas C8-C9 Liga dos Radio Emissores de Mocambique, Box 25, Maputo, Mozambique DA-DR DARC Amateurfunk Zentrum, Box 1155, D-34216 Baunatal, Germany DU-DZ,4D-4I Philippine Amateur Radio Association, Box 4083, Manila, Philippines D2-D3 Liga dos Amadores de Radio de Angola (closed) Angola EA-EH,AM-AO Union de Radioaficionados Espanoles, Box 220, E-28080 Madrid, Spain EI-EJ Irish Radio Transmitters Society, Box 462, Dublin 9, Ireland EL,5L-5M Liberia Radio Amateur Association, Box 10-1477, 1000 Monrovia 10, Liberia ES Eesti Raadioamatööride Ühing, Box 125, EE-0090 Tallinn, Estonia ET Ethiopian Amateur Radio Society, Box 7447, Addis Ababa, Ethiopia EU-EW Box 469, 220050 Minsk, Belarus EX Union of Radio Amateurs of Kirghizstan Box 1100, 720020 Bishkek 20 F,HW-HY,TK, TM,TO-TQ Réseau des Emetteurs Français, Box 2129, F-37021 Tours Cedex, France FG,FJ,FM, FP,FS,FT Cards for members only via RED QSL, BP 2129, F-37021 Tours Cedex, France FK Cards for members only may be sent via ARANC, Box 3956, Noumea, New Caledonia FO CORA QSL Bureau, Box 5006, Pirae, Tahiti French Polynesia G,2A-2Z UNITED KINGDOM G RSGB QSL Bureau, Box 1773, Potters Bar EN6 3EP, England, United Kingdom GD c/o G.W. 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Hudspeth, GW0ARK, 67 Bloomfield Rd., Blackwood Gwent NP2 1LX, Wales HA,HG MRASZ QSL Bureau, Box 214, H-1368 Budapest 5 HB,HE USKA QSL Service, Box 15, CH-4705 Wangen an der Aare, Switzerland HBO AFVL QSL Bureau, Box 27, FL-9486 Schaanwald, Liechtenstein HC-HD Guayaquil Radio Club (IARU member), Box 5757, Guayaquil, Ecuador HH,4V Radio Club of Haiti, Box 501, Port-Au-Prince, Haiti HI Radio Club Dominicana, Box 1157, Santo Domingo, Dominican HJ-HK,5J-5K Liga Colombiana de Radioaficionados, Box 584, Bogota, Colombia HL Korean Amateur Radio League, Box 162, HL9 US Personnel in the Republic of Korea American Amateur Radio Club of Korea Dependent Mail Section, Box 153, APO, AP 96206 CPO, Seoul 100-601, Korea (Republic of) HO-HP,H3 Liga Panamena de Radioaficionados, Box 175, Panama 9A, Panama HQ-HR Radio Club de Honduras, Box 273, San Pedro Sula, Honduras	HS-E2 RAST QSL Bureau, GPO Box 2008, Bangkok, 10501 Thailand H4 SIRS, Box 418, Honiara, Solomon Islands I ARI Via Scarlatti 31, I-20124 Milano JA-JS,7J-7N, 8J-8N JARL, 1-14-2 Sugamo, Toshima, Tokyo, 170 Japan JT-JV Mongolian Radio Sports Federation, Box 639, Ulaan Baatar 13, Mongolia JY Royal Jordanian Radio Amateur Society, Box 2353, Amman, Jordan J2 Association des Radioamateurs de Djibouti, Box 1076, Djibouti J3 Grenada Amateur Radio Club, Box 737, St. George's, Grenada J7 Dominica Amateur Radio Club, Box 389, Roseau, Dominica LA-LN,JW-JX, 3Y Norsk Radio Relae Liga, Box 21, Refstad, N-0513 Oslo 5, Norway LO-LW,AY-AZ, L2-L9 Radio Club Argentina, Box 97, Correo Central, 1000 Buenos Aires, CF, Argentina LX c/o A. Rischette, LX1AR, 25 Rue A. Munchen, L-2172 Luxembourg LY Lietuvos Radijo Megeju Draugija, Box 1000, 2001 Vilnius, Lithuania LZ Bulgarian Federation of Radio Amateurs, Box 830, 1000 Sofia, Bulgaria OA-OC,4T Radio Club of Peru Box 538, Lima 100, Peru OD Association des Radio-Amateurs Libanais, Box 118888, Beirut, Lebanon OE OE VSV QSL Bureau, Theresienstrasse 11, A-1180 Vienna, Austria OF-OJ SRAL QSL Bureau, Box 30, SF-00381 Helsinki, Finland OK-OL Czech Radio Club, Box 69, 11327 Praha 1, Czech Republic OM Slovak Amateur Radio Association, Box 1, 85299 Bratislava, Slovakia ON-OT UBA QSL Bureau, Box 400, B-8400 Ostend WV, Belgium OY FRA QSL Bureau, Box 1358, FR-110 Torshavn, Faroe Islands OU-OZ c/o B.W. Nielsen, OZ7BW, Solbjergvej 76, DK-8355 Ny Solbjerg, Denmark PA-PI Dutch QSL Bureau, Postbus 330, NL-6800 AH Arnhem, Netherlands PJ Vereniging voor Experimenteel Radio Onderzoek in Nederlandse Antillen, Box 3383, Curacao, Netherlands Antilles PP-PY,ZV-ZZ Liga de Amadores Brasileiros de Radio Emissao Box 07-0004, 70.359 Brasilia DF, Brazil PZ VRAS QSL Manager, Box 566, Paramaribo, Surinam P2-P3 QSL Bureau, Box 141, Port Moresby, Papua New Guinea P4 Aruba Amateur Radio Club QSL Bureau, Box 2273, San Nicolas, Aruba R,UA-UI Soyuz Radiolyubitelej Rossii, Box 59, Moscow 105122, Russia SA-SM,7S,8S Foreningen Sveriges Sandareamatörer Ostmarksgatan 43, S-12342 Farsta, Sweden SN-SR,HF,3Z PZK QSL Bureau, Box 320, PL-00950 Warszawa 1, Poland ST,6T,6U Sudan Radio Club, Box 80, El Morada, Omdurman, Republic of the Sudan SU EAWC, QSL Bureau, c/o Wireless Officers Club Ramsis Bldg., Floor 13 Flat 10, 6 Ramsis Square, Cairo 11111, Egypt SV-SZ,J4 Radio Amateur Association of Greece, Box 3564, GR-10210 Athens, Greece S2-S3 Bangladesh Amateur Radio League, Box 3512, GPO, Dhaka, Bangladesh S5 Zveza Radioamaterjev Slovenije, Box 180, 61001 Ljubljana, Slovenia SWL Mike Witkowski, WDX9JFT, 4206 Nebel St., Stevens Point, WI 54481 TA-TC,YM Telsiz Radyo Amatörleri Cemiyeti, Box 109, Istanbul, Turkey TF IRA QSL Bureau, Box 1058, 121 Reykjavik, Iceland TG,TD Club de Radioaficionados de Guatemala, Box 115, Guatemala City, Guatemala TE-TI Radio Club of Costa Rica, Box 2412, San Jose 1000, Costa Rica F,HW-HY,TK, TM,TO-TQ Cards for members only via REF QSL, BP 2129, F-37021 Tours Cedex, France TR Association Gabonaise des Radio-Amateurs, Box 1826, Libreville, Gabon TU Association des Radio Amateurs Ivoiriens, 01 BP 2946, Abidjan 01, Ivory Coast F,HW-HY,TK, TM,TO-TQ Cards for members only via REF QSL,
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KA2-5**
KA7-9**

KA6**

KG4

KH2

KH3

KH4

KH6

KL7

K4,N4,W4

KP2

KP4

AP-AS

QSL BUREAUS

T7	BP 2129, F-37021 Tours Cedex, France	W8	Box 182165, Columbus, OH 43218-2165	9L	Sierra Leone ARS, Box 10, Freetown, Sierra Leone
T9	ARRSM QSL Bureau, Box 77, RSM-47031 Bosnia and Herzegovina, Savez Radioamatera Bosne i Hercegovine (mail service suspended) Rep. of San Marino (Italy)	W9	Northern Illinois DX Association, Box 519, Elmhurst, IL 60126	9M	Malaysian Amateur Radio Transmitters' Society Box 10777, 50724 Kuala Lumpur, Malaysia
UR-UZ,EM-E0	URL, Box 56, 252001 Kiev 1, Ukraine	W0	Box 4798, Overland Park, KS 66204	90-9T	Union Zairoise des Radio-Amateurs (closed) Zaire
UN-UQ	Kazakhstan Amateur Radio Union, Box 112, 470055 Karaganda, Kazakhstan c/o B. Leonard, V31HK, Box 168, Belmopan Belize	XY-XZ	Burma Amateur Radio Transmitting Society (closed), Myanmar	9V	Singapore Amateur Radio Transmitting Society Box 2728, GPO, Singapore 9047
V3	Namibian Amateur Radio League, Box 1100, Windhoek 9000, Namibia	XA-XI,4A-4C, 6D-6J	Federacion Mexicana de Radio Experimentadores, Box 907, 06000 Mexico D.F., Mexico	9Y-9Z	Trinidad and Tobago Amateur Radio Society, Box 1167, Port of Spain, Trinidad and Tobago
V5	Kwajalein Amateur Radio Club, Box 444, APO, AP 96555, Marshall Islands, USA	YB-YE,8A-8I	ORARI QSL Bureau, Box 96, Jakarta 10002, Indonesia		
V7	Negara Brunei Darussalam Amateur Radio Association, Box 73, Gadong, Bandar Seri Begawan 3100, Brunei	YI	Iraqi Radio Amateur Club, Box 55072, Baghdad 12001		
V8		YJ	Vanuatu Amateur Radio Society, Box 665, Port Villa, Vanuatu		
VA-VG,VO, VX-VY,CF-CK, CY-CZ,XJ-XO	CANADA	YK,6C	Technical Institute of Radio, Box 245, Damascus, Syria		
VE,VO,VY	Box 51, St. John, NB E2L 3X1	YN,HT	Club de Radioexperimentadores de Nicaragua, Box 925, Managua, Nicaragua		
VE0-1,VY2	c/o J. Wade, VE1DH, Box 141, Petitcodiac, NB E0A 2H0	YO-YR	Federatia Romana de Radioamatorism, Box 22-50, R-71100 Bucuresti, Romania		
VE2	c/o A.G. Daeman, VE2IJ, 2960 Douglas Ave., Montreal, PQ H3R 2E3	YS	Club de Radio Aficionados de El Salvador, Box 517, San Salvador, El Salvador		
VE3	c/o G. Hammond, VE3XN, 5 McLaren Ave., Listowel, ON N4W 3K1	YT-YU,YZ, 4N-4O	Savez Radio-Amatera Jugoslavije, Box 48, YU-11001 Beograd, Yugoslavia		
VE4	c/o A. Romanchuk, VE4SN, 26 Morrison St., Winnipeg, MB R2V 3B4	YV-YY,4M	Radio Club Venezolano, Box 2285 Caracas 1010A, Venezuela		
VE5	c/o B. Madsen, VE5FX, 739 Washington Dr., Weyburn, SK S4H 3C7	ZA	Albanian Amateur Radio Association, Box 66, Tirana, Albania		
VE6	c/o N.F. Walther, VE6VW, Box 1890, Morinville, AB T0G 1P0	ZB2	Gibraltar Amateur Radio Society, Box 292, Gibraltar		
VE7	c/o D. Levesay, VE7DK, 8309 112th St., Delta, BC V4C 4W7	ZC4	Joint Signal Board Hq., BFC, BFPO 53, London GPO, United Kingdom; British Forces Cyprus		
VE8	c/o R. Ziemann, VE8RZ, 2 Taylor Rd., Yellowknife, NT X1A 2K9	ZD8	Ascension Amateur Radio Relay League Box 4127, Patrick AFB, FL 32925-0127, USA, Ascension Island		
VO	c/o R. Peddle, VO1BD, Box 6, St. John's, NF A1C 5H5	ZF	Cayman Amateur Radio Society, Box 1029, Grand Cayman, Cayman Islands		
VY1	c/o W. Champagne, VY1AU, Box 4597, Whitehorse, YT Y1A 2R8	ZL-ZM	NZART QSL Bureau, Box 857 Wanganui 5000, New Zealand		
VH-VN,AX	AUSTRALIA	ZP	Radio Club Paraguayo, Casila de Correo 512, Asuncion, Paraguay		
VK1	Box E46, Queen Victoria Terrace, ACT 2600	ZR-ZU	South African Radio League, Box 807, Houghton 2041, South Africa		
VK2	Box 73, Teralba, NSW 2284	Z2	Zimbabwe Amateur Radio Society, Box 2377, Harare, Zimbabwe		
VK3	Box 757G, GPO, Melbourne, Victoria 3001	Z3	Association of Amateur Radio Operators of Macedonia Box 14, 91000 Skopje, Former Yugoslav Republic of Macedonia		
VK4	Box 638, GPO, Brisbane, QLD 4001	3A	Association des Radio-Amateurs de Monaco Box 2, MC-98001 Monaco Cedex, Monaco		
VK5	Box 10092, Gouger St. Adelaide, SA 5000	3B	Mauritius Amateur Radio Society, Box 467 Port Louis, Mauritius		
VK6	c/o J. Rumble, VK6RU, Box F319, GPO, Perth, WA 6001	3DA	Radio Society of Swaziland, Box 3744, Manzini		
VK7	Box 371D, GPO, Hobart, TAS 7001	3D2	Fiji Association of Radio Amateurs, Box 184 Suva, Fiji		
VK8	c/o H.G. Andersson, VK8HA, Box 619, Humpty Doo, NT 0836	4P-4S	Radio Society of Sri Lanka, Box 907, Colombo, Sri Lanka		
VK9-0	c/o N. Penfold, VK6NE, 2 Moss Court, Kingsley, WA 6026	4U1ITU	International Amateur Radio Club Box 6, CH-1211 Geneva 20, Switzerland		
VP2E	Anguilla Amateur Radio Society, Box DX, The Valley, Anguilla	4X,4Z	IARC QSL Bureau, Box 3500, Haifa 31034, Israel		
VP2M	Montserrat Amateur Radio Society, Box 448, Plymouth, Montserrat	5B	Cyprus Amateur Radio Society, Box 1267, Limassol, Cyprus		
VP2V	British Virgin Islands Radio League Box 653, Road Town, Tortola, British Virgin Island	5N-5O	Nigerian Amateur Radio Society, Box 2873, G.P.O. Marina, Lagos, Nigeria		
VP5	Turks and Caicos Amateur Radio Society c/o J. Millsaugh, VP5JM, Box 218, Providenciales, Turks and Caicos Islands	5W	WSARC QSL Bureau, Box 1069, Apia, Western Samoa		
VP8	Falkland Islands Radio Club, Box 260 Mount Pleasant Airport, Falkland Islands	5Y-5Z	Radio Society of Kenya, Box 45681, Nairobi, Kenya		
VP9	Radio Society of Bermuda, Box HM 275, Hamilton HM AX, Bermuda	6V-6W	Association des Radio-Amateurs du Senegal, Box 971, Dakar, Senegal		
VQ9	c/o R. Shaw, VQ9RS/KA0MXI, NSF, Box 16, FPO, AP 96464, USA	6Y	Jamaica Amateur Radio Association, 75 Arnold Rd., Kingston 5, Jamaica		
VR2,VS6	British Indian Ocean Territory	7P	Lesotho Amateur Radio Society, Box 949, Maseru 100, Lesotho		
VT-VW	Hong Kong Amateur Radio Transmitting Society, Box 541, Hong Kong	7T-7Y	Amateurs Radio Algeriens, Box 2, Alger Gare, Algeria		
V2	Antigua and Barbuda Amateur Radio Society, Box 1111, St. John's Antigua and Barbuda	8P	Amateur Radio Society of Barbados, Box 814E, Bridgetown, Barbados		
V7	Kwajalein Amateur Radio Club, Box 444, APO, AP 96555, USA Marshall Islands	8R	c/o S. D'Ornellas, 8R1B, 11 Barrack St., Kingston, Georgetown, Guyana		
W,AA-AL, K,N	USA	9A	Hrvatski Radio-Amaterski Savez, Box 564, HR-41000 Zagreb, Croatia		
W1	Box 80216, Springfield, MA 01138-0216	9G	Ghana Amateur Radio Society, Ghana		
W2	North Jersey DX Association, Box 599, Morris Plains, NJ 07950	9H	Malta Amateur Radio League, Box 575, Valletta, Malta		
W3	Cumberland County Amateur Radio Service Box 448, New Kingstown, PA 17072-0448	9I,9J	Radio Society of Zambia, Box 20332 Kitwe, Zambia		
K4,N4,W4	Mecklenburg Amateur Radio Society Box DX, Charlotte, NC 28220	9K	Kuwait Amateur Radio Society, Box 5240, Safat 13053, Kuwait		
AA-AK4,KA-KZ4,NA-NZ4, WA-WZ4	Sterling Park Amateur Radio Club Call Box 599, Sterling, VA 20167				
W5	Box 50625, Midland TX 79710				
W6	Box 1460, Sun Valley, CA 91352				
W7	Willamette Valley DX Club, Box 555, Portland, OR 97207				

RADIO AMATEURS OPERATING WITH RECIPROCAL LICENSES

Foreign

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A7/W6KG
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CE0/W6KG
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C6/WA20WL
DJ4J/HI8
DU/KB2GRH
DU/K4TY
DU/KZ5Z
DU/WB5LBJ

DU/KD6TB
DU/N6XRU
DU/N7ET
DU/N7GCN
DU/N7GCO
DU4/N7MUX
DW/KA7SFR
EA/KA4WUM
EA/W5VZY
EA5/GONGC
EA6/G6ZY
EA7/N5OKR
F/G2BNI
F/GOKSW
F/WU2J
FH/W6KG
FR/W6KG
FR/W6QL
FS/FG5EM
FS/FG5EO
FS7/FG0VG
FW/G4DZC
FY/KD3FK
FY/N4QDX
G/KB4YK

G/KK6DF
G/KK6EE
G/N0BZ

GW0N2ATT
HA/K6EID
HB0/HB9NL
HB9/CU2BR
HB9/NIFEY
HC/W6KG
HC/KA9SNM
HC/KA0SYR
HC/KA0TBS
HI/N9HBQ

HI/VE3LKU
HK/CE3FOT
HK/CE3JWE
HK/HB0DX
HK/KC4AN
HK/K0LWJ
HK/N4HUF
HK/SM5HV
HK/W6QL
HK/WA2ITL
HK/WA3HOV
HK/WB0DTP
HK0/W6KG
HK5/CP4XA
HK5/HJ3JZH
HK5/HJ3WBY
HK5/HJ6VVA
HK5/HK3AGA
HK5/HK3KK
HK5/HK3MOC
HK5/HK3NPE
HK5/HK4LPI
HK5/HK6BJR
HK5/HK6OQL
HK5/HK8COO
HK5/HK8NZG
HK5/HK9CCT
HK5/KB4YGO
HK5/KC4NEB
HK5/N6NVK

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Walter Brenner, QSL via DJ0FX
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QSL via W1/G4DZC
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HP4/TI2LAK
HR/WB5YUWU
HR/W6QL
HR2/JA6WFM
HS0/DL1ZAV

HS0/G4UAV

HS0/OE2ASL

HS0/OE2REL
H13/WF9T
H44/JA6SJN
JT/H47VQ
JT/OK1XC
JT/RA6LEV
JT/RB5LTK
JT/RB5LUK
JT/RB3MR
JT/RA6LEV
JT/UA3EC
JT/UL7QCI
JT1/KB9IBZ
JW/LB6DC
JW/LB6EC
JW/LB6FC
J6/OE2CHN
KA1HL/VE3
OE/SP5JXI
OH/G4JVG
OH/K5HGK
PA/DF4NP
PA/DL8RH
PA/1RYS
PA/KB1IA
PA/SM6CPI
PJ/KB4RCP
PJ/W6QL
PJ/WA3MJR
PZ/W6KG
P4/N4XCF
SM/WK5CQ
SM/9M2CR
SV/W6KG
SV/W6QL
SV9/SV0HW
SV0HW/SV9
S7/W6KG
S7/W6QL
S8/W6KG
S8/W6QL
TA/WD8ANI
TG/KD5HA
TI/HI8AJD
TI/HI8MWD
TI/LU1JMQ
TI/W6KG
VE2/CE2JG
V2/N4WQB
VE3/JA3PJM
VE3/OK3CAW
VE3/S52NN
VP2/W6KG
VP2E/AA1M
VP2E/JH4IFF
VP2E/KA3DBN
VP2E/KB2JXG
VP2E/KB4VHW
VP2E/KB8WC
VP2E/KD6VWV
VP2E/KO8O
VP2E/KT8Y
VP2E/K8BL
VP2E/NOLMD
VP2E/NR1R
VP2E/N2FBB
VP2E/N4BWS
VP2E/W2ORA
VP2E/W2PAU
V2/KA2DIV
V2/OE2CHN
V2/JH1/VE3
YL/KA0RYS
YS/WD4IFN
YV/HI8CVR

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Mitsumasa "Mitsu" Uto, QSL via JH4IFF
John Rouse, QSL via KA3DBN
Catherine Burke, QSL via KB2JXG
Robert C. Ave, QSL via KB4VHW
John Bricker, QSL via KB8WC
Bruce D. Lee, QSL via KD6VWV
Scott Farnham, QSL via KO8O
Thomas Auth, QSL via KT8Y
Robert Liddy, QSL via K8BL
John O. Stewart, QSL via NOLMD
Reynolds A. Sylvester, Jr., QSL via NR1R
Robert Reiman, QSL via N2FBB
Terrell Moore, QSL via N4BWS
Joseph D. Duffin, QSL via W2ORA
Edwin M. Brown, QSL via W2PAU
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Foreign

YV/K3UOC
YV/KD4AH
YV/K4MUP
YV/OA4AUN
YV/W8PLV
ZB2/G4HUA
ZP/W6QL
ZP9/DL3RO
ZS/W6KG
ZS3/W6QL
Z2/W6QL
4F/KE6PU
4S/JA8DOK
S7/DF5UG
4S/DJ8CV
4S/DK1ZN
4S/DK2SC

4S/WB7VR
4X/W6KG
5A/G3JKI
5N/DC6GW
5N/DK9FH
5N/DK3LQ
5N/DL5KBK
5N/DL5NE
5N/EI6FM

5N/EL2AY
5N/FC1LIA
5N/FE6HCL
5N/G3GJQ
5N/G3SKX
5N/G3ZMP
5N/G4WOB
5N/G8WTR
5N/HB9CUZ
5N/HB9KC
5N/1ICSJ
5N/IK1FOS
5N/IK7EJX

5N/JG1FVZ
5N/K0LXA
5N/KA0KIA
5N/KB7ZT
5N/KC7RD
5N/LU9EAG
5N/N4NW
5N/OE1YDA
5N/OE5SYM
5N/OE5WRL
5N/OK1AEX
5N/OK1DJO
5N/OK1ZKA
5N/ON7VD
5N/PB0ACP
5N/TU2HS
5N/TU2NL
5N/TZ6WC
5N/VY1AA
5N/W4LZ
5N/W0PBV
5N/YU3IK
5N/YU7SC
5N/4X4FF
5N/5B4MV
5N/9G1JH
5N9/LU9EAG
6Y/KB4ZBK
6Y/KC4ADR
6Y/W3FAJ
6Y/OE2CHN
8R/HI8AD
8R/LU9CAM
8R/W1CDC
8R/N3BBT
8R/WA4YYG
8R1/DL9MEU

8R1/G4AAL

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Mr. Grogor Fischer, 109 Cane View Avenue, South Ruimveldt
Gardens Gr. Georgetown, Guyana
Mr. John F. Layton, British High Commission, 44 Main Street, Georgetown, Guyana

Foreign

8R1/KA8AXQ
8R1/KB2LVN
8R1/PE1MIY
8R1/PE1NEF
8R1/PE1OJM
9M2/KA1BWF
9N/W6KG
9N/W6QL
9Y/J6LAD
9Y/OE2CHN
9Y4/JA2EZD
9Y4/KN4TX

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W1/G4DZC
W1/LU9DDN
W1/PU1AIL
W1/PU1AKP
W1/PU1AKQ
W1/VK2JBM
W2/CE3CRA
W2/F2YS
W2/HI3JTE
W2/HI3VAR
W2/HI8CAO
W2/HK1AHR
W2/JS1DLC
W2/VK2DXI
W2/YU2WX
W2/4X6MQ
W3/H4C4CP
W3/SM6NCT
W4/DJ3YT
W4/DJ8XU
W4/EA4DDJ
W4/HI8RFA
W4/HK3GZB
W4/HK3HCJ
W4/LU4DUZ
W4/OZ7SM
W4/TF3KX
W4/YJ1JCR
W4/6Y5AM
W4/PY2ZEA
W4/Y51AF
W4/4X1AD
W5/DL2HI
W5/LU3EHT
KB7TRF/DU4
KG6/OE6BVG
KH6/OE2CHN
KH6/VK2DXI
W1/G4DZC
W6/CX7CB
W6/G3MHV
W6/G3NBZ
W6/JA1WZV
W6/LU4DMI
W6/LU6AND
W6/LU8EDU
W6/OE2CHN
W6/OE6BVG
W6/TG9EM
W6/TG9JH
W6/VK2KS
W6/4X6MQ
W7/DL1UF
KH8/OE2CHN
WB/JR1COO
KH0/JG1RVN
KH0/OE6BVG
VE2AQS/WG
VE2QB/W4
VE3BM/W2
VE3EKH/W5
VE3XUN/W6
VE7GDM/WO

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Mario Novak, 34-10 33rd St., Astoria, NY 11106, USA
QSL via 4X1AD
Cesar Plaza O., 13800 Valley Dr., Potomac, MD 20854, USA
Tommy Johansson, 5312 Carlton St., Bethesda, MD 20816, USA
Frank Nemetz, 918 SE 10th Ct., Deerfield Beach FL 33441, USA
Silvia Nemetz, 918 SE 10th Ct., Deerfield Beach FL 33441, USA
Julio Perez, 380 Arlington Rd., West Palm Beach, FL 33405, USA
Miguel A. Rodriguez, 9740 SW 77th St., Miami, FL 33173, USA
Eduardo Gavia V., 10772 SW 88th St. G-7, Miami, FL 33176, USA
Fabio Castillo C., 3330 Wiseman Dr., Charlotte, NC 28212, USA
Alberto F. Urrutia, 22563 SW 66th Ave #207, Boca Raton, FL 33428, USA
Herbert Asmussen, 2401 Silver Palm Rd. W., Boca Raton, FL 33432, US
Kristinn Anderson, 1706-B Ashwood Ave., Nashville, TN 37212, USA
Jose Carlos Ruiz, 201 W Queens Dr., Williamsburg, VA 23185, USA
Michael A. Crawford, Box 570364, Miami, FL 33257, USA
F.E. Vidal, 14532 West Dixie Highway, Miami, FL 33161, USA
Jose A. Figras, Ave. A 255, San Jose, San Salvador
Morel Grunberg, QSL via 4X1AD
Sigurd Meng, 24 Comanche Circle, Shawnee, OK 74801, USA
Enrique Moresco, 2411 Leon C. Simon Dr., New Orleans, LA 70122, USA
Gordon, P.O. Box 757, Naga City, 4400, Philippines
Walter Brenner, QSL via DJ0FX
Christian Hohenwallner, QSL via OE2VLN
M. Rozbicki, QSL via VK2DXI
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Jorge Alberto Aguiar, 1741 Colby Ave., 103, Los Angeles, CA 90025, USA
Terence G. Langdon, Box 1489, Santa Monica, CA 90406, USA
Ken Thorne, 8040 Bobby Boyar Ave., West Hills, CA 91304, USA
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Marcelo G. Martins, P.O. Box 90994, Long Beach, CA 90809-0994
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Walter Brenner, QSL via DJ0FX
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Julio Garcia, POB 1493, Hawthorne, CA 90245, USA
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Reinhard Geissler, 7000 N. Central Ave., Phoenix, AZ 85020, USA
Christian Hohenwallner, QSL via OE2VEL
Hiroshi Shimizu, 21209 Bayside, ST. Claire Shores, MI 48081, USA
QSL via JG1RVN
Walter Brenner, QSL via DJ0FX
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Bernie Volkove, 6824 C-17, Sebring, FL 33870, USA
Yuri Blarovich, Box 282, Pine Brook, NJ 07058, USA
J. Donald Boudreau, Box 260, Hurricane Creek Estates, Anna, TX 75003, USA
Peter R. Jennings, Box 336, Ben Lomond, CA 95005, USA
Doug McGill, 2508 Century Road, Omaha, NE 68123, USA

Country	CQ Zone	Prefix	Country	CQ Zone	Prefix	Country	CQ Zone	Prefix
Afghanistan	21	YA	Guyana	9	8R	Paraguay	11	ZP
Agalega & St Brandon Is	39	3B6,3B7				Peru	10	OA-OC
Aland Is	15	OH0	Hawaii	31	KH6	Peter I Is	12	3Y
Alaska	1	KL7	Haiti	8	HH	Philippines	27	DU-DZ
Albania	15	ZA	Heard Is	39	VK0	Pitcairn Is	32	VR6
Algeria	33	7T-7Y	Honduras	7	HQ,HR	Poland	15	SN-SR
Amsterdam & St Paul Is	39	FTBZ	Hong Kong	24	V56,VR2	Portugal	14	CT
Andaman & Nicobar Is	26	VU	Hungary	15	HA,HG	Prince Edward Is (Canada)	5	VE1,VY2
Andorra	14	C3				Prince Edward Is	38	Z58
Angola	36	D2,D3	Iceland	40	TF	Puerto Rico	8	KP4
Annobon Is (Pagalu)	36	3C0	India	22	VU			
Antarctica	12,13,29,30,32,36,39	CE9/KC4	Indonesia	28	YB-YH			
			Iran	21	EP-EO	Qatar	21	A7
Aran Is	14	EJ0	Iraq	14	EL			
Argentina	13	LO-LW	Ireland	14	EI,EJ	Reunion Is	39	FR
Armenia	21	EK	Ischia	15	IC	Revilla Gigedo Is	6	XA4-X14
Aruba	9	P4	Isle of Man	14	GD,GT	Rodriguez Is	39	3B9
Ascension Is	36	ZD8	Israel	20	4X,4Z	Romania	20	YO-YR
Auckland & Campbell Is	32	ZL9	Italy	15,33	I	Rota Is	27	KH0
Australia	29,30	VK	ITU Geneva	14	4U	Rotuma	32	3D2
Austria	15	OE	Ivory Coast	35	TU	Rwanda	36	9X
Aves Is	8	YV0				Russia, Asiatic	16-19,23	UA-UI8,9,0,RA-RZ
Azerbaijan	21	4J,4K	Jamaica	8	6Y	Russia, European	16	UA-UI1,3,4,6,RA-RZ
Azores Is	14	CU	Jan Mayen Is	40	JX			
			Japan	25	JA-JS	Saba Is	8	PJ
Bahama Is	8	C6	Japan, US Personnel in	25	KA	Sabah	28	9M6
Bahrain	21	A9	Jarvis Is	31	KH5	Sable Is	5	CY0
Baker & Howland Is	31	KH1	Jersey	14	GJ,GH	St Barthelemy	8	CJ
Balearic Is	14	E6A-EH6	Johnston Is	31	KH3	St Helena Is	36	ZD7
Banaba	31	TJ3	Jordan	20	JY	St Martin Is	8	FJ,FS
Bangladesh	22	S2	Juan de Nova Is	39	FR/J	St Paul Is	5	CY9
Barbados	8	8P	Juan Fernandez Is	12	CE0	St Peter & St Paul Rocks	11	PP0-PY0
Belarus	16	EU-EW				St Pierre & Miquelon Is	5	FP
Belau	27	KC6	Kaliningrad	15	UA2	Saipan Is	27	KH0
Belgium	14	ON-OT	Kazakhstan	17	UL	Samoa, American	32	KH8
Belize	7	V3	Kerguelen Is	39	5Y,5Z	Samoa, Western	32	5W
Benin	35	TY	Kermadec Is	32	FT8X	San Andres & Providencia Is	7	HK0
Bermuda Is	22	VP	Kingman Reef	31	ZL7	San Felix Is	12	CE0
Bhutan	10	A5	Kiribati	31	KHK5	San Marino	15	SM
Bolivia	10	CP	Kiribati East	31	T32	Sao Tome & Principe	28	S9
Bosnia & Herzegovina	15	T9,4N4,4O4,YU4	Kiribati Central	31	T31	Sarawak	28	9M8
Botswana	38	A2	Kiribati West	31	T30	Sardinia	15	IM0,IS0
Bouvet Is	38	3Y	Kure Is	31	KH7	Saudi Arabia	21	HZ
Brazil	11	PP-PY	Kuwait	21	9K	Scotland	14	GM,GS
Brunei	28	V8	Kyrgyzstan	17	EX	Senegal	35	6V,6W
Bulgaria	20	LZ				Seychelles	39	S7
Burkina-Faso	35	XT	Labrador (Canada)	2	VO2	Sicily	15	IT
Burundi	36	9U	Laccadive Is	22	VU7	Sierra Leone	35	9L
			Lampedusa Is	33	IG	Singapore	28	9V
Cambodia	26	XU	Laos	16	XW	Sint Eustatius	8	PJ
Cameroon	36	VO	Latvia	25	YL,LU	Sint Maartin	8	PJ
Canada	1,2,3,4,5	VE,VU,VY	Lebanon	20	OD	Slovak Republic	15	OM
Canary Is	33	E8A-EH8	Leeward Is			Slovenia	15	S5,YU3
Cape Verde	35	D4	Anguilla	8	VP2E	Solomon Is	28	H4
			Antigua, Barbuda	8	V2	Somalia	37	T5
Capri Is	15	IC	British Virgin Is	8	VP2V	South Africa, Rep of	38	ZR-ZU
Cayman Is	8	ZF	Montserrat	8	VP2M	South Georgia Is	13	VP8
Central African Rep	36	TL	St Kitts, Nevis	8	V4	South Korea	25	HL
Ceuta & Melilla (Spain)	33	E9A-EH9	Lesotho	38	7P	South Orkney Is	13	LU,VP8
Chad	36	TT	Liberia	35	EL	South Sandwich Is	13	LU,VP8
Chagos	39	VO9	Libya	34	5A	South Shetland Is	13	HF0,4K1,CE9,LU,VP8
Chatham Is	32	ZL7	Liechtenstein	14	H80	Southern Sudan	34	ST0
Chile	12	CA-CE	Lithuania	15	LY,LP	Sov Mil Order of Malta	14	1A0
China	23,24	BT	Lord Howe Is	30	VK8L	Spain	14	EA-EH
Christmas Is	29	VK9X	Luxembourg	14	LX	Spratty Is	26	EA-EH
Cliperton Is	7	FO				Sri Lanka	22	4P,4S
Cocos Is	7	T9	Macao	24	XX9	Sudan	34	ST
Cocos (Keeling) Is	29	VK9C	Macedonia	15	Z3,4N5,YU5	Surinam	9	PZ
Colombia	9	HJ,HK	Macquarie Is	30	VK0	Svalbard Is	40	JW
Comoros	39	D6	Madagascar	39	5R,5S	Swan Is	7	HR0
Congo	36	TN	Maddalena Is	15	IM	Swaziland	38	3DA
Conway Reef	32	3D2	Madeira Is	33	CT3	Sweden	14	SA-SM
Cook Is	32	ZK1	Malaysia East	28	9M6,9M8	Switzerland	14	HB
Corsica	15	TK	Malaysia West	28	9M2,9M4	Syria	20	YK
Costa Rica	7	TE,TI	Malawi	37	70			
Crete	20	SV9	Maldives	22	8Q	Taiwan	24	BV
Croatia	15	9A,YU2	Malta	35	TZ	Tajikistan	17	EY
Crozet Is	39	FT8W	Malpe	9	9H	Tanzania	37	SH-51
Cuba	8	CM,C0	Malpel	16	HK0	Thailand	26	HS
Cyprus	20	5B,ZC4	Malvi Vyotskij Is	9	4J1,R1MV	Tinian	27	KH0
Czech Republic	15	OK,OL	Manihiki	32	ZK1	Togo	35	5V
			Mariana Is	27	KH0	Tokelau Is	31	ZK3
			Marion Is	38	Z58	Tonga Is	32	A3
Denmark	14	OZ	Market Reef	15	OJ0	Trindade & Martim Vaz Is	11	PP0-PY0
Descheo Is	8	KP5	Marshall Is	31	V7	Trinidad & Tobago	9	9Y,9Z
Djibouti	37	J2	Martinique	8	FM	Tristan da Cunha & Gough Is	38	ZD9
Dodecanese Is	20	SV5	Mauritania	35	ST	Tromelin Is	39	FR/T
Dominican Republic	8	HI	Mauritius	39	3B8	Tunesia	33	3V
			Mayotte	39	FI	Turkey	20	TA-TC
Easter Is	12	CE0	Melish Reef	30	VK9M	Turkmenistan	17	EZ
Ecuador	10	HC,HD	Mexico	6	XA-XI	Turks & Caicos Is	8	VP
Egypt	34	SU	Micronesia	27	V6	Tuvalu Is	31	T2
El Salvador	7	YS	Midway Is	31	KH4			
England	14	G,GX	Minami-Tori-Shima	27	JD1	Uganda	37	5X
Equatorial Guinea	36	3C	Moldova	16	ER	Ukraine	16	UR-UZ,EM-E0
Eritrea	37	E3	Monaco	14	3A	United Arab Emirates	21	A6
Estonia	15	ES	Mongolia	23	JT-JV	United Nations HQ	5	4U
Ethiopia	37	ET	Morocco	30	CN	United States of America	1,3,4	AA-AL,K,N,W
Europa Is	39	FR/E	Mount Athos	23	SV/A		5,31	
			Mozambique	20	C8,C9	Uruguay	13	CV-CX
Faroes	14	OY	Myanmar	26	XY,XZ	Uzbekistan	17	UJ-UM
Falkland Is	13	VP8				Vanuatu	32	YJ
Fernando de Noronha	11	PD,PY0	Namibia	38	V5	Vatican	15	HV
Fiji Is	32	3D2	Nauru	31	C2	Venezuela	15	YV-YY
Finland	15	OF-OI	Navassa Is	8	KP1	Vietnam	26	3W,XV
France	14	F	Nepal	22	9N	Virgin Is	8	KP2
Franz Josef Land	40	4K2,UA1	Netherlands	14	PA-PI			
French Guiana	9	FY	Netherlands Antilles			Wake Is	31	KH9
French Polynesia	32	FO	(Bonaire, Curacao)	9	PJ2,4K	Wales	14	GW,GC
			New Caledonia	32	FX	Wallis & Futuna Is	32	FW
Gabon	36	TR	Newfoundland (Canada)	5	VO1	Walvis Bay	38	Z59
Galapagos Is	10	HC8,HD8	New Zealand	2	ZL,ZM	Western Sahara	33	S0
Gambia, The	35	C5	Nicaragua	7	4L	Willis Is	30	VK9W
Georgia	14	DA-DL,Y2-Y9	Niger	35	SU	Windward Is		
Germany	35	9G	Nigeria	35	5N,5O	Dominica	8	J7
Gibraltar	14	ZB2	Niue Is	32	ZK2	Grenada	8	J3
Glorioso Is	39	FR/G	Norfolk Is	32	VKN9	St Lucia	8	J6
Gozo (Malta)	15	9H4	Northern Ireland	14	GI,GN	St Vincent	8	J8
Graham Land	13	LU,VP8	Norway	14	LA-LN			
Greece	20	SV-SZ				Yemen	21,37	70
Greenland	40	OX	Ogasawara Is	27	JD1	Yugoslavia	15	YT,YU,YZ
Guadeloupe	8	FG	Okinawa (Ryukyu Is)	25	JR6	Yukon Territory (Canada)	1	VY1
Guam	27	KH2	Oman	21	A4			
Guantanamo Bay	8	KG4				Zaire	36	90-9T
Guatemala	7	TG,TO	Pakistan	21	AP-AS	Zambia	36	91,9J
Guernsey	14	GU,GP	Palmyra Is	31	KH5	Zanzibar (Tanzania)	37	5H1
Guinea-Bissau	35	J5	Panama	7	HO,HP	Zimbabwe	38	ZZ
Guinea	35	3X	Panua New Guinea	28	P2			

INTERNATIONAL RADIO AMATEUR PREFIXES

The following prefixes are listed in alphabetical order for convenience in identifying the country when DX calls are heard.

AA-AL	United States of America	JY	Jordan	VY1	Yukon Territory (Canada)
AP-AS	Afghanistan	JZ	Libya	VZ	Antigua & Barbuda
A2	Botswana	J3	Grenada	V3	Belize
A3	Tonga	J5	Guinea-Bissau	V4	St Kitts & Nevis
A4	Oman	J6	St Lucia	V5	Namibia
A5	Bhutan	J7	Dominica	V6	Micronesia
A6	United Arab Emirates	J8	St Vincent & Dependencies	V7	Marshall Is
A7	Qatar			V8	Brunei
A9	Bahrain				
BV	Taiwan	K	United States of America	W	United States of America
BY,BT	China	KA	U.S. Personnel in Japan	XA-XI	Mexico
CA,CE	Chile	KC4	U.S. Antarctica	XA4-XI4	Revilla Gigedo Is
CE9AA,AM	O'Higgins, Palmer Peninsula, Graham Land	KC8	Western Caroline Is	XT	Burkina Faso
CE9,LU,VP8,HF0,4K1	South Shetland Is	KG4	Guantanamo Bay	XU	Cambodia
CE0	Easter Is	KH1	Baker & Howland Is	XV	Viet Nam
CE0	San Felix Is	KH2	Guam	XW	Laos
CE0Z	Juan Fernandez Is	KH3	Johnston Is	XX9	Macao
CM,CO	Cuba	KH4	Midway Is	XY,XZ	Myanmar
CM	Morocco	KH5	Jarvis & Palmyra Is		
CP	Bolivia	KH5K	Kingman Reef	YA	Afghanistan
CT	Portugal	KH6	Hawaii	YB-YH	Indonesia
CT3	Madeira Is	KH7	Kure Is	YI	Iraq
CU	Azores Is	KH8	American Samoa	YJ	Vanuatu
CV-CX	Uruguay	KH9	Wake Is	YK	Syria
CY0	St. Paul Is (Canada)	KH0	Mariana Is	YL	Latvia
CY0	Sable Is (Canada)	KL7	Alaska	YN	Nicaragua
C3	Nauru	KP1	Navassa Is	Y0-YR	Romania
C3	Andorra	KP2	Virgin Is	YS	El Salvador
C5	The Gambia	KP4	Puerto Rico	YT,YU,YZ	Yugoslavia
C6	Bahamas	KP5	Desecheo Is	YV-YY	Venezuela
C8,C9	Mozambique			Y2-Y9	Ares Is
					Germany
DA-DL	Germany	LA-LN	Norway	ZA	Albania
DU-DZ	Philippines	LO-LW	Argentina	ZB2	Gibraltar
D2,D3	Angola	LU	Argentine Antarctica	ZC4	Cyprus (Br. Forces)
D4	Cape Verde	LX	Luxembourg	ZD7	St Helena Is
D6	Comoros	LY	Lithuania	ZD8	Ascension Is
		LZ	Bulgaria	ZD9	Tristan da Cunha & Gough Is
EA-EH	Spain	N	United States of America	ZE	Cayman Is
EA6	Balearic Is	OA-OC	Peru	ZF	Cook & Manihiki Is
EA8-EH8	Canary Is	OD	Lebanon	ZK2	Niue Is
EA9-EH9	Ceuta & Melilla	OE	Austria	ZK3	Tokelau Is
EI,EJ	Ireland	OF-OI	Finland	ZL	New Zealand
EJ0	Aran Is	OH0	Åland Is	ZP	Paraguay
EK	Armenia	OK-OL	Czech Republic	ZR-ZU	Rep of South Africa
EL	Liberia	OM	Slovak Republic	ZS8	Prince Edward & Marion Is
EM-E0	Ukraine	ON-OT	Belgium	ZS9	Walvis Bay
EPE0	Iran	OX,OZ	Denmark	Z2	Zimbabwe
ER	Moldova	OY	Faroese	Z3	Macedonia
ES	Estonia	PA-PI	Netherlands	1A0	Sovereign Military Order of Malta
ET	Ethiopia	PJ	Netherlands Antilles	1S	Spratty Is
EU-EW	Belarus	PP-PY	Brazil		
EX	Kyrgyzstan	PP0-PY0	Fernando de Noronha Is	3A	Monaco
EY	Tajikistan	PP0-PY0	St Peter & St Paul Rocks	3B6	Agalega Is
EZ	Turkmenistan	PP0-PY0	Trindade & Martim Vaz Is	3B7	St Brandon
		PZ	Surinam	3B8	Mauritius Is
F	France	P2	Papua New Guinea	3B9	Rodriguez Is
FG	Guadeloupe	P4	Aruba	3C	Equatorial Guinea
FH	Mayotte	RA-RZ	Russia	3C0	Pagalu Is
FJ	St Barthelemy	SA-SM	Sweden	3DA-3DM	Swaziland
FK	New Caledonia	SN-SR	Poland	3DN-3DZ	Fiji Is
FM	Martinique	ST	Sudan	3V	Tunisia
FO	French Polynesia, Clipperton Is	ST0	Southern Sudan	3W	Laos
FP	St Pierre & Miquelon	SU	Egypt	3X	Guinea
FR	Reunion Is	SV-SZ	Greece	3Y	Peter I & Bouvet Is
FR/E	Europa Is	SV5	Dodecanese Is	4F	Philippines
FR/G	Glorioso Is	SV9	Crete	4J,4K	Azerbaijan
FR/J	Juan de Nova Is	S2	Bangladesh	4J1,R1MV	Malji Vysotsky Is
FR/T	Tromelin Is	S5	Slovenia	4K1	Russian Antarctica
FS	St Martin Is	S6	Singapore	4K2	Franz Josef Land
FT8W	Crozet Is	S7	Seychelles	4N4	Bosnia & Herzegovina
FT8X	Kerguelan Is	S9	Sao Tome & Principe	4L	Georgia
FT8Y	French Antarctica	S0	Western Sahara	4P4S	Sri Lanka
FT8Z	Amsterdam & St Paul Is			4U	I.T.U. Geneva
FW	Wallis & Futuna Is	TA-TC	Turkey	4X,4Z	Israel
FY	French Guiana	TD,TG	Guatemala		
G,GX	England	TF	Iceland	5A	Libya
GD	Isle of Man	TJ	Costa Rica	5B	Cyprus
GI,GN	Northern Ireland	TJ,TI9	Cocos Is	5H,5I	Tanzania
GJ,GH	Jersey		Cameroon	5H1	Zanzibar
GS,GM	Scotland	TK	Corsica (France)	5L	Liberia
GP,GU	Bailiwick of Guernsey	TL	Central African Republic	5N,5O	Nigeria
GW,GC	Wales	TN	Congo	5R,5S	Madagascar
		TR	Gabon	5T	Mauritania
HA,HG	Hungary	TT	Chad	5U	Niger
HB	Switzerland	TU	Ivory Coast	5V	Togo
HBO	Liechtenstein	TY	Benin	5W	Western Samoa
HD	Ecuador	TZ	Mali	5X	Uganda
HD8	Galapagos Is	T2	Tuvalu	5Y,5Z	Kenya
HH	Haiti	T3	Kiribati		
HI	Dominican Republic	T5	Somalia	6V,6W	Senegal
HJ,HK	Colombia	T6	Afghanistan	6Y	Jamaica
HK0	Bajo Nuevo, Maipelo, San Andres, Providencia Is	T7	San Marino		
	South Korea	T9	Bosnia & Herzegovina	7J-7N	Japan
HL	North Korea	UA-UI	Russia	7O	Yemen
HQ,HP	Panama	VE,V0,VY	Canada	7P	Lesotho
HQ,HR	Honduras	VK	Australia	7Q	Malawi
HRO	Swan Is	VK7	Tasmania	7T-7Y	Algeria
HS	Thailand	VK9C	Cocos (Keeling) Is	7Z	Saudi Arabia
HU	El Salvador	VK9L	Lord Howe Is		
HV	Vatican City	VK9M	Meishan Reef	8J	Japanese Antarctica
HZ	Saudi Arabia	VK9N	Norfolk Is	8P	Barbados
H4	Solomon Is	VK9W	Willis Is	8Q	Maldives Is
		VK9X	Christmas Is	8R	Guyana
I	Italy	VK0	Heard Is, Australian Antarctica		
IA	Tuscan Archipelago	V01	Newfoundland (Canada)	9A	Croatia
IC	Capri & Ischia Is	V02	Labrador (Canada)	9G	Ghana
IG	Lampedusa Is	VP2E	Anguilla	9H	Malta
IH	Pantelleria Is	VP2M	Montserrat	9H4	Gozo
IM	Maddelena Is	VP5	Turks & Caicos Is	9I,9J	Zambia
IMO-ISO	Sardinia	VP8	Falkland, S. Georgia, S. Orkney, S. Sandwich, S. Shetland, Graham Land	9K	Kuwait
IT	Sicily	VP9	Bermuda Is	9L	Sierra Leone
JA-JS	Japan	V09	Chagos Archipelago	9M2,9M4	West Malaysia
JD1	Ogasawara Is	VR2,V56	Hong Kong	9M6	Sabah
JD1	Minami-Tori-Shima	VR6	Pitcairn Is	9M8	Sarawak
JR6	Okinawa (Ryukyu Is)	VU	India	9N	Nepal
JT-JV	Mongolia	VU	Andaman & Nicobar Is	9Q-9T	Zaire
JW	Svalbard Is	VU	Laccadive Is	9U	Burundi
JX	Jan Mayen Is			9V	Singapore
				9X	Rwanda
				9Y-9Z	Trinidad & Tobago

6 METER BEACONS

This list has been prepared by Harry Schools KA3B and Ray Clark K5ZMS for SMIRK, the Six Meter International Radio Klub. Please send all update information and Klub membership inquiries to K5ZMS.

I=Intermittent beacon. C=Continuous beacon.

FREQ.	CALL	OPERATION	LOCATION	GRID	NOTES
35.810	VK6RO	I	Western Australia		3W, 6 el Yagi
41.750	VK6RO	I	Western Australia		8W, 6 el Yagi
45.250	Ch. 1	I	New Zealand TV video		
46.250	Ch. 0	I	Australian TV video		
48.250	Ch. E2	I	European/African TV video		
49.750	Ch. RI	I	European/Asian TV video		
50.000	CE3BXK	I	Santiago, Chile		
50.000	GB3BUX	C	Sheffield Univ., Buxton, England	IO93BF	15W, Turnstile
50.005	ZS2SIX	C	Rep. of South Africa	KF25	25W, dipole N/S
50.005	H44HIR		Honaria, Solomon Islands	QI00	
50.007.2	KØGUV	C	Park Rapids, Minnesota, USA	EN26	8W, Halo 35'
50.010	VE7SIX	C	Kaleden, BC, Canada	DN09	130W, Swiss Quad
50.010	JA2IGY	C	Mie (near Nagoya), Japan	PM84	10W, ground plane
50.013	P29BPL	C	Port Moresby, Papua New Guinea	QI30	30W, dipole
50.015	SZ2DH	I	Athens, Greece	KM18MM	10W, 5 el yagi
50.015	PJ4B	C	Bonaire, Netherlands Antilles		
50.017	JE6ZIH	C	Miyazaki, Japan	PM51	10W, 2X/Squalo
50.018	ZS3VHF	C	Rep. of South Africa	JG87	50W, ground plane
50.020	GB3SIX	C	Anglesey, Wales	IO73TJ	25W, 3 el Yagi
50.020	CX1CCC	C	Uruguay	GF15	5W, ground plane
50.025	6Y5RC	C	Kingston, Jamaica	FK17MX	40W, 3 el Yagi
50.026.5	ZS6PW	I	Rep. of South Africa	KG44	
50.028	JA7ZMA	C	Fukushima, Japan	QM07	10W, 6 el Yagi
50.030	CTØWW	C	Joao Pesdueira, Portugal	IN61GE	40W, dipole
50.032.5	ZD8VHF	C	Ascension Island	II22	50W, JVL vertical
50.033	LU8YYO	C	Argentina		
50.035	ZB2VFH	C	Gibraltar		
50.035	ZS3VHF	C	Rep. of South Africa		60W, vertical
50.039	FY7THF	C	Kourou, French Guyana	GJ35	100W, ground plane
50.040	CX8BE	I	Montevideo, Uruguay	GF15	10W, 4 el Yagi
50.040	SV1SIX		Greece		
50.045	YV5/DL3ZM	C	Caracas, Venezuela	FK60	10W, 6 el Yagi
50.045	OX3VHF	C	Simiutaq, Greenland	GP60QQ	20W, ground plane
50.050	GB3NHQ	C	Potters Bar, England	IO91VQ	15W, dipoles
50.050	ZS6DN	C	Irene, Rep. of South Africa	KG44	
50.055	ZS6LN	I	Rep. of South Africa	KG46	
52.056	VK8VF	C	Darwin, Australia	PH57	20W, horizontal
50.057.5	TF3SIX	C	Iceland	HP94CC	50W, vertical
50.060	GB3RMK	C	Rosemarkie, Scotland	IO77UO	20W, dipole
50.060	K4TQR	C	Birmingham, Alabama, USA	EM630M	1W, dipole 60'
50.060	WA8ONQ	C	Middletown, Ohio, USA	EM79TM	2W, Turnstile 60'
50.060	W5VAS	C	Slidell, Louisiana, USA	EM50	0.5W, vertical 310
50.060.2	PY2AA	C	Sao Paulo, Brazil	GG66QK	25W, ground plane
50.061	K1NFE	C	Burlington, Connecticut, USA	FN31MS	15W, Turnstile 70'
50.062	W3VD	C	Laurel, Maryland, USA	FM19NC	10W, vertical 40'
50.062.5	GB3NGI	C	Londonderry, No. Ireland	IO65	18W, dipole
50.063	N4PZ	C	Sarasota, Florida, USA	EL87SF	0.4W, whip 70'
50.063	K6MYC	I	Kona, Hawaii, USA	BK29	10W, M sq. Yagi
60.064	WD7Z	C	Yucca, Arizona, USA	DM24MV	75W, Squalo, 60'
50.065	WA1OJB	C	Bowdoin, Maine, USA	FN54	13W, J-pole 15'
50.065	NB30/1	C	Rhode Island, USA	FN41	100W, 5 el Yagi
50.065	W9KFO	C	Eaton, Indiana, USA	EN70HH	1.5W
50.065	KAØCDN	C	Aurora, Colorado, USA	DM79PS	20W, Halo 30'
50.065	WØIJR	C	Aurora, Colorado, USA	DM79PS	20W, Halo 30'
50.065	KL7WE	I	Anchorage, Alaska, USA	BP51	1.5W, 3 el Yagi
50.065.5	GB3IOJ	C	Jersey, Channel Islands	IN89	10W, Halo
50.066	VK6RPR	C	Perth, Australia	OF78	20W, horizontal
50.067	WB8IGY	I	Loveland, Ohio, USA	EM79UG	2W, vertical 100'
50.067	N7DB	I	Boring, Oregon, USA	CN85TM	10W, Halo 30'
50.067		C	Brazzaville, Congo AM Station		
50.068	W7US	C	Tucson, Arizona, USA		
50.068.5	W4RFR	C	Nashville, Tennessee, USA	EM66WA	2W
50.069	W4HHK	C	Collierville, Tennessee, USA	EM55HA	1W, dipole 30'
50.069	K6FV	C	Woodside, California, USA	CM87UL	100W, various 30'
50.070	WØBJ	C	North Platte, Nebraska, USA	DN91NC	5W, Turnstile 12'
50.070	KA4VEY	C	Harvest, Alabama, USA	EM64VV	10W, vertical
50.070	KB4UPI	C	Birmingham, Alabama, USA	EM630M	4W, dipole 25'

6 METER BEACONS

FREQ.	CALL	OPERATION	LOCATION	GRID	NOTES
50.059	JH0ZPI		Ueda City Nagano, Japan		1W/5W/10W switch op.
50.070	KA4VEY	C	Harvest, Alabama, USA	EM64VV	10w, vertical
50.070	KB4UPI	C	Birmingham, Alabama, USA	EM630M	4W, dipole 25'
50.070	K0TF	C	Des Moines, Iowa, USA	EN31KC	3W, inverted V
50.070	N4LTA	C	Spartanburg, S. Carolina, USA	EM94AX	10W, Halo 50'
50.070	WA7ECY	C	Troutdale, Oregon, USA	CN85SM	10W, Squalo 30'
50.070	WB0CGH	C	Lewisville, Texas, USA	EM13MC	1.5W, Halo 180'
50.070	WB4GJG	I	Danville, Virginia, USA	FM06HM	1W, Ringo 70'
50.071	W0VD	C	Joplin, Missouri, USA	EM27VD	12W, dipole 20'
50.072	WA2YTM	C	Canadaigua, New York, USA	FN121T	15W, Turnstile
50.072	KW2T	C	Palmyra, New York, USA	FN13	0.25W, Squalo 30'
50.074	WB4DSH	C	Oklahoma City, Oklahoma, USA	EM15FL	30W, Halo 40'
50.075	K7IHZ	I	Mesa, Arizona, USA	DM43BM	20W, Squalo
50.075	PY2AMI	C	Americana, Brazil	GG67IF	10W, ground plane
50.075	NL7XM/Z	C	Staten Island, New York	FNZ0WN	10W, vertical
50.075	KP4EKG	I	Bayamon, Puerto Rico, USA	FK68	10W, vertical 35'
50.075	VS6SIX	C	Hong Kong	OL72	30W, ground plane
50.077	N0LL	C	Smith Center, Kansas, USA	EM09OS	21W, 2 Halos 30'
50.077	N5JM	I	New Orleans, Louisiana, USA	EL49XW	3W, vertical 50'
50.077.5	T12NA	C	San Jose, Costa Rica	EK70	20W, dipole
50.079	W6SKC/7	C	Nogales, Arizona, USA	DM41ML	5-80W, horizontal 15'
50.080	KH6JJK	I	Honolulu, Hawaii, USA	BL11CI	5W, 3 el Yagi
50.080	WB4OOJ	C	Tampa, Florida, USA	EL87SU	10W, vertical 25'
50.080	W1AW	I	ARRL, Newington, CT, USA	FN31PQ	50W, 6 el Yagi 60'
50.082	HC8SIX	C	Galapagos Islands	EI59	4W, vertical
50.085	9H1SIX	C	Malta	JM75FV	25W, 5 el Yagi
50.086	LU1MA	C	Mendoza, Argentina	FF57	10W, 2 el Quad
50.086	K7NV	I	Pahrump, Nevada, USA	DM16	
50.086	VE2STL	C	Val Belair, Quebec, Canada	FN46	1.5W, dipole
50.086	VP2MO	I	Plymouth, Montserrat	FK86	10W, 6 el Yagi 50'
50.090	KJ6BZ	C	Jonnston Island	AK56	10W, 6 el Yagi
50.092	W5GTP	I	New Iberia, Louisiana	EM40CA	30W, 3 el Yagi 30'
50.100	HC2FG	C	Guayaquil, Ecuador	FI07	8W, J-pole
50.100	VP5D	C	Turks & Caicos Islands	FL31	6W, AR6 Ringo 60'
50.100	KG6DX	I	Latte Heights, Guam	QK23	40W, 3 el Yagi
50.110	JA2IGY	C	Mie (near Nagoya), Japan	PM84	10W, ground plane
50.110	A61XL	I	United Arab Emirates	LL74	50W, 6 el Yagi
50.120	4S7EA	I	Sri Lanka	MJ97	50W, 6 el Yagi
50.321	ZS5SIX	C	Pietermaritzburg, RSA	KG50	10W, Halo
50.490	JG1ZGW	C	Tokyo, Japan	PM95	10W, dipole
50.500	5B4CY	C	Zyghi, Cyprus	KM64HT	15W, ground plane
50.740	Ch. 1 Audio	I	Auckland, New Zealand	WBFM	
50.750	Ch. 1 Audio	I	Kaukapunake, New Zealand	WBFM	
50.760	Ch. 1 Audio	I	Waukapunake, New Zealand	WBFM	
50.904	ZS1STB	C	Republic of South Africa	KF05	25W, ground plane
51.020	ZL1UHF	C	Auckland, New Zealand	RF73	25W, dipole
51.030	ZL2MHB	C	Napier, New Zealand	RF80	10W, vertical
51.225	ZL2VHTC		Inglewood, New Zealand	RF70	30W
51.670	Ch.0 Audio	I	Brisbane, Qld, Australia		FM
51.740	CH.0 Audio	I	Wagga, NSW, Australia		FM
51.760	Ch.0 Audio	I	Melbourne, Vic, Australia		FM
51.910	Ch.0 Audio	I	Brisbane, Qld, Australia		FM
52.100	ZK2SIX	C	Niue	AH50	
52.200	VK8VF	C	Darwin, Australia	PH57	20W, horizontal
52.250	ZL2VHM	C	Manawatu, New Zealand	RE79	8W
52.310	ZL3MHF	C	Christchurch, New Zealand	RE66	50W, vertical
52.320	VK6RTT	C	Wickham, Australia	OG89	25W, J-pole
52.325	VK2RHV	C	Newcastle, Australia	QF57	20W, horizontal
52.330	VK3RGG	C	Geelong, Australia	QF21	10W, horizontal
52.345	VK4ABP	C	Longreach, Australia	QG26	10W, vertical
52.370	VK7RST	C	Hobart, Australia	QE37	20W, horizontal
52.420	VK2RSY	C	Sydney, Australia	QF56	25W, Turnstile
52.425	VK2RGB	C	Gunnedah, Australia	QF59	5W, horizontal
52.440	VK4RTL	C	Townsville, Australia	QH30	10W, 1/4 vertical
52.450	VK5VF	C	Adelaide, Australia	PF95	30W, Turnstile
52.460	VK6RPH	C	Perth, Australia	OF78	20W, horizontal
52.465	VK6RTW	C	Albany, Australia	OF84	10W, horizontal
52.470	VK7RNT	C	Launceston, Australia	QE38	10W, horizontal
52.485	VK8RAS	C	Alice Springs, Australia	PG66	25W, horizontal
52.490	ZL2SIX	C	Blenheim, New Zealand	RE68	10W, vertical
52.510	ZL2MHF	C	Upper Hut, New Zealand	RE78	4W, vertical

INTERNATIONAL POSTAL RATES

These are the postal rates in effect at the time of this issue.

	United States and Possessions	Canada	Mexico	All Other Countries
First Class Air Postcard (QSL)	\$0.19	\$0.30	\$0.30	\$0.40
Surface Postcard (QSL) (1 Ounce)				\$0.35
First Class Air Letter (1 Ounce)	\$0.29	\$0.40	\$0.45	\$0.95
Additional Ounces	\$0.23	\$0.23**	\$0.23***	
Surface Letter (1 Ounce)				\$0.70*
Aerogramme				\$0.45

* Over 1 up to 2 oz. \$0.95; over 2 up to 3 oz. \$1.20; over 3 up to 4 oz. \$1.45

** Over 1 up to 2 oz. \$0.63; over 2 up to 3 oz. \$0.86; over 3 up to 4 oz. \$1.09

*** Over 1 up to 1½ oz. \$0.55; over 1½ up to 2 oz. \$0.65; over 2 up to 3 oz. \$0.90; over 3 up to 4 oz. \$1.15

INTERNATIONAL REPLY COUPONS (IRC's) may be purchased at U.S. Post Offices for \$.95 each. As of December 1991, newly issued IRC coupons allow for Air Mail return. EACH new coupon may be exchanged in any country of the Universal Postal Union for one or more postage stamps representing the minimum postage for a priority item or an unregistered letter sent by Air to any country. The following multiple IRC's are needed for Air Mail reply ONLY if old-issue coupons are being used.

Afghanistan.....5	Ecuador.....3	Liberia.....5	St. Pierre & Miquelon Is. (Fr.)...2
Aland Is. (Fin.).....2	Egypt.....5	Libya.....2	St. Thomas & Principe.....3
Albania.....4	El Salvador.....3	Liechtenstein.....2	St. Vincent.....3
Algeria.....2	Equatorial Guinea.....2	Luxembourg.....2	Samoa, Western.....4
Andorra.....2	Ethiopia.....3		San Marino.....3
Angola.....3		Macao.....3	Saudi Arabia.....3
Anguilla.....3	Faroe Is. (Den.).....2	Madeira Is. (Port.).....2	Scotland (U.K.).....2
Antigua.....2	Falkland Is. (Br.).....3	Madagascar.....3	Senegal.....2
Argentina.....3	Fiji Is.....4	Malawi.....6	Seychelles.....3
Ascension Is.....3	Finland.....2	Malaysia, West.....5	Sierra Leone.....3
Australia.....4	France.....2	Mali.....2	Singapore.....5
Austria.....2	French Guiana.....2	Malta.....2	Solomon Is.....2
Azores Is. (Port.).....2	French Polynesia.....2	Martinique (Fr.).....2	South Africa, Rep. of.....5
		Mauritania.....2	South Yemen.....5
Bahama Is.....2	Gabon.....2	Mauritius Is.....3	Spain.....2
Bahrain.....5	Gambia, The.....4	Mexico.....2	Sri Lanka.....5
Balearic Is. (Spain).....2	Germany.....2	Montserrat.....3	Sudan.....3
Bangladesh.....2	Ghana.....3	Morocco.....2	Surinam.....2
Barbados Is.....3	Gibraltar (Br.).....2	Mozambique.....3	Swaziland.....5
Belgium.....2	Great Britain.....2	Myanmar.....4	Sweden.....2
Belize.....2	Greece.....2		Switzerland.....2
Benin.....2	Greenland (Den.).....2	Namibia.....5	Syria.....3
Bermuda Is.....2	Grenada.....4	Nauru.....2	
Bolivia.....2	Guadeloupe.....2	Nepal.....5	Taiwan.....3
Botswana.....5	Guatemala.....2	Netherlands.....2	Tanzania.....4
Brazil.....2	Guinea-Bissau.....2	Netherlands Antilles.....2	Thailand.....3
Brunei.....4	Guinea.....2	New Caledonia.....2	Togo.....2
Bulgaria.....3	Guyana.....4	New Zealand.....3	Tonga Is.....3
Burkina Faso.....2		Nicaragua.....4	Trinidad & Tobago Is.....2
Burundi.....3	Haiti.....5	Niger.....2	Tristan da Cunha Is.....3
	Honduras.....3	Nigeria.....3	Tunisia.....2
Cambodia.....3	Hong Kong.....5	Northern Ireland (U.K.).....2	Turkey.....3
Cameroon.....2	Hungary.....2	Norway.....2	Turks & Caicos Is.....2
Canada.....2		Oman.....4	Tuvalu.....5
Canary Is. (Spain).....2	Iceland.....2		
Cape Verde.....3	India.....3	Pakistan.....2	Uganda.....4
Cayman Is.....3	Indonesia.....3	Panama.....2	United Arab Emirates.....4
Central African Republic.....2	Iran.....4	Papua New Guinea.....3	Uruguay.....2
Ceuta & Melilla (Spain).....2	Iraq.....3	Paraguay.....3	
Chad.....2	Ireland (Eire).....3	Peru.....3	Vanuatu.....2
China.....3	Israel.....3	Philippines.....3	Vatican City.....2
Colombia.....3	Italy.....2	Poland.....2	Venezuela.....2
Comoros.....3	Ivory Coast.....2	Portugal.....2	Vietnam.....2
Congo.....2		Qatar.....4	Virgin Is. (Br.).....2
Costa Rica.....2	Japan.....2		
Crete (Greece).....2	Jordan.....3	Reunion Is. (Fr.).....2	Wales (U.K.).....2
Cuba.....4		Romania.....3	West Irian (Indonesia).....3
Cyprus.....4	Kenya.....4	Rwanda.....2	
Czechoslovakia.....2	Kiribati.....5	St. Helena Is. (Br.).....3	Yugoslavia.....3
	Korea.....3	St. Kitts-Nevis.....3	
Denmark.....2	Kuwait.....4	St. Lucia.....3	Zaire.....2
Djibouti.....2	Lebanon.....3		Zambia.....2
Dominica.....2	Lesotho.....5		Zanzibar (Tanzania).....4
Dominican Republic.....2			Zimbabwe.....5

THIRD-PARTY TRAFFIC

The U.S. Federal Communications Commission defines third-party traffic [Part 97.3 (a) (38)] as: "a message from the control operator (first party) of an amateur station to another amateur station control operator (second party) on behalf of another person (third party)." U.S. amateurs are only permitted to handle such third-party traffic with countries having third-party agreements with the United States.

The following is a current list of these countries:

V2	Antigua & Barbuda	YS	El Salvador	YN	Nicaragua
LU	Argentina	9G	Ghana	HP	Panama
VK	Australia	J3	Grenada	ZP	Paraguay
V3	Belize	TG	Guatemala	OA	Peru
CP	Bolivia	8R	Guyana	DU	Philippines
PP-PY	Brazil	HH	Haiti	VR6	Pitcairn Is.
VE,VO,VY	Canada	HR	Honduras	V4	St. Kitts, Nevis
CE	Chile	4X,4Z	Israel	J6	St. Lucia
HK	Colombia	4U1ITU	ITU, Geneva	J8	St. Vincent
D6	Comoros	4U1VIC	ITU, Vienna	9L	Sierra Leone
TI	Costa Rica	6Y	Jamaica	3D6	Swaziland
CM,CO	Cuba	JY	Jordan	C5	The Gambia
J7	Dominica	EL	Liberia	9Y	Trinidad & Tobago
HI	Dominican Republic	XE	Mexico	CX	Uruguay
HC	Ecuador	V6	Micronesia	YV	Venezuela

RECIPROCAL OPERATING AGREEMENTS

The United States has negotiated reciprocal operating agreements with many other countries. Amateurs may operate within the territory of these countries according to the terms of the agreement after first obtaining a permit from the host country. The sole exception is Canada: amateurs with valid U.S. or Canadian licenses may operate within the other country's territory without obtaining a permit. They must, of course, abide by all the terms of the reciprocal operating agreement.

The following is a current list of countries having reciprocal operating agreements with the United States:

V2	Antigua & Barbuda	OX	Greenland	YN	Nicaragua
LU	Argentina	J3	Grenada	LA	Norway
VK	Australia	TG	Guatemala	HP	Panama
OE	Austria	8R	Guyana	P2	Papua New Guinea
C6	Bahamas	HH	Haiti	ZP	Paraguay
8P	Barbados	HR	Honduras	OA	Peru
ON	Belgium	VS6	Hong Kong	DU	Philippines
V3	Belize	TF	Iceland	CT	Portugal
CP	Bolivia	VU	India	J6	St. Lucia
A2	Botswana	YB-YH	Indonesia	J8	St. Vincent
PP-PY	Brazil	EI	Ireland	S7	Seychelles
VE,VO,VY	Canada	4X,4Z	Israel	9L	Sierra Leone
CE	Chile	I	Italy	H4	Solomon Is.
HK	Colombia	6Y	Jamaica	ZR,ZS	Rep. of South Africa
TI	Costa Rica	JA-JS	Japan	EA-EH	Spain
5B	Cyprus	6Y	Jordan	PZ	Surinam
OZ	Denmark	T3	Kiribati	SJ-SM	Sweden
J7	Dominica	9K	Kuwait	HB	Switzerland
HI	Dominican Republic	EL	Liberia	HS	Thailand
HC	Ecuador	LX	Luxembourg	9Y	Trinidad & Tobago
YS	El Salvador	V6	Micronesia	T2	Tuvalu
3D2	Fiji	XE	Mexico	G	United Kingdom
OH	Finland	3A	Monaco	CX	Uruguay
F	France & Territories	PA-PI	Netherlands	YV	Venezuela
DA-DR	Germany	PJ	Netherlands Antilles	YU	Yugoslavia
SV	Greece	ZL	New Zealand		

TELEGRAPH CODES

Continental Code	Morse Code
Used in ham radio	Used on land lines in United States and Canada
<p>A ·—</p> <p>B —···</p> <p>C —·—·</p> <p>D —··—</p> <p>E ·—·—</p> <p>F ···—</p> <p>G —·—·</p> <p>H ····</p> <p>I ···—</p> <p>J ·—·—</p> <p>K —·—·</p> <p>L —··—</p> <p>M —·—·</p> <p>N —·—·</p> <p>O —··—</p> <p>P ·—·—</p> <p>Q —·—·</p> <p>R —·—·</p> <p>S ···—</p> <p>T —··—</p> <p>U —··—</p> <p>V ···—</p> <p>W —··—</p> <p>X —··—</p> <p>Y —··—</p> <p>Z —··—</p>	<p>A ·—</p> <p>B —···</p> <p>C —·—·</p> <p>D —··—</p> <p>E ·—·—</p> <p>F ···—</p> <p>G —·—·</p> <p>H ····</p> <p>I ···—</p> <p>J ·—·—</p> <p>K —·—·</p> <p>L —··—</p> <p>M —·—·</p> <p>N —·—·</p> <p>O —··—</p> <p>P ·—·—</p> <p>Q —·—·</p> <p>R —·—·</p> <p>S ···—</p> <p>T —··—</p> <p>U —··—</p> <p>V ···—</p> <p>W —··—</p> <p>X —··—</p> <p>Y —··—</p> <p>Z —··—</p> <p>& —··—</p>
There are no space letters in the Continental Code	C, O, R, Y, Z, and & are composed of dots and spaces T is a short dash L is a longer dash Zero (0) is usually abbreviated to T
<p>Figures</p> <p>1 ·—·—</p> <p>2 ···—</p> <p>3 ···—</p> <p>4 ···—</p> <p>5 ···—</p> <p>6 —···</p> <p>7 —···</p> <p>8 —···</p> <p>9 —···</p> <p>0 —··—</p>	<p>Figures</p> <p>1 ·—·—</p> <p>2 ···—</p> <p>3 ···—</p> <p>4 ···—</p> <p>5 —···</p> <p>6 —···</p> <p>7 —···</p> <p>8 —···</p> <p>9 —···</p> <p>0 —··—</p>
<p>Punctuation</p> <p>(.) ···—</p> <p>(,) —··—</p> <p>(?) —··—</p> <p>(:) —··—</p> <p>(;) —··—</p> <p>(-) —··—</p> <p>(!) —··—</p> <p>(@) —··—</p> <p>(#) —··—</p> <p>(%) —··—</p> <p>(^) —··—</p> <p>(&) —··—</p> <p>(*) —··—</p> <p>(+) —··—</p> <p>(=) —··—</p> <p>(~) —··—</p> <p>(`) —··—</p> <p>(_) —··—</p> <p>(~) —··—</p> <p>(^) —··—</p> <p>(&) —··—</p> <p>(*) —··—</p> <p>(+) —··—</p> <p>(=) —··—</p> <p>(~) —··—</p> <p>(`) —··—</p> <p>(_) —··—</p>	<p>Punctuation</p> <p>(.) ···—</p> <p>(,) —··—</p> <p>(?) —··—</p> <p>(:) —··—</p> <p>(;) —··—</p> <p>(-) —··—</p> <p>(!) —··—</p> <p>(@) —··—</p> <p>(#) —··—</p> <p>(%) —··—</p> <p>(^) —··—</p> <p>(&) —··—</p> <p>(*) —··—</p> <p>(+) —··—</p> <p>(=) —··—</p> <p>(~) —··—</p> <p>(`) —··—</p> <p>(_) —··—</p>

Emergency Signal

In a dire emergency situation
use **SOS** by code, **MAYDAY** by voice.

SPECIAL LISTINGS

A **Special Listing** in the *Callbook* is printed in boldface type to ensure your recognition in the crowd and make your listing easier to locate. This service includes special handling to give you just the wording you want. Would you like to include a nickname or a non-controversial slogan? Do you have more than one mailing address, perhaps one in the summer and another in the winter? A *Callbook* Special Listing can provide these services and more for an entire year at nominal cost. The basic Special Listing is 3 lines or fewer. Additional lines are available up to a total of 9 lines. Please note there is a maximum of 44 characters and spaces per line. The publisher reserves the right to refuse any copy not in keeping with the *Callbook's* standards.

Copy deadline is September 15, 1995 for the 1996 editions of the *Callbooks*.
Item # RC2496

\$15.00 Basic 3-line listing, per year.
\$5.00 Each additional line (maximum 9 lines)



Special Listing Order Form

September 15, 1995, is the deadline for this service in the 1996 RADIO AMATEUR CALLBOOK.

Call Letters Licenses Call Name

Enclosed is my check or money order.

Charge my: ☐ VISA ☐ MasterCard ☐ American Express

Card # _____ Exp. Date _____

Signature _____

Name _____

Address _____

City _____

State/Province _____ Zip/Postal Code _____

Country _____

RADIO AMATEUR CALLBOOK

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STANDARD TIME THROUGHOUT THE WORLD

23A

The standard time system is based on the theoretical division of the surface of the globe into 24 zones, each of 15° of longitude. The initial zone is the one which has as its central meridian the Greenwich Meridian and with the meridians 7° 30' E. and 7° 30' W. as its eastern and western limits. Time in this zone is called Universal Coordinated Time, or UTC. Places to the east of Greenwich are ahead of UTC, while places to the west are behind UTC. Not all countries follow the International Time Zone System, but will use the time of some principal city as a standard or will have no standard time at all.

Reference - "Standard Time Chart of the World" No. 5192, published by the U.S. Navy Hydrographic Office, Washington D.C.

Country	Standard or local time	
	Hours fast or slow of UTC	Time at 12:00 hrs. UTC
Afghanistan.....	+ 4½	16 30
Alaska.....	+ 2	14 00
Albania.....	+ 1	13 00
Algeria.....	+ 0	12 00
Amsterdam Is.....	+ 5	17 00
Andaman Is.....	+ 5½	17 30
Andorra.....	+ 1	13 00
Angola.....	+ 1	13 00
Anguilla.....	+ 4	08 00
Antigua.....	+ 3	08 00
Argentina.....	+ 3	09 00
Aruba Is.....	+ 4	08 00
Ascension Is.....	+ 0	12 00
Auckland Is.....	+ 12	24 00
Australia: Western Australia.....	+ 8	20 00
Northern Territory, South Australia.....	+ 9½	21 30
New South Wales, Queensland, and Victoria.....	+ 10	22 00
Austria.....	+ 1	13 00
Azores Is.....	+ 1	11 00
Bahamas.....	+ 5	07 00
Bahrain.....	+ 3	15 00
Baker Is. (U.S.).....	+ 11	01 00
Balearic Is.....	+ 1	13 00
Bangladesh.....	+ 6	18 00
Barbados.....	+ 4	08 00
Belgium.....	+ 1	13 00
Belize.....	+ 6	06 00
Benin.....	+ 4	13 00
Bermuda Is.....	+ 4	08 00
Bhutan.....	+ 6½	18 30
Bolivia.....	+ 4	08 00
Bonaire.....	+ 4	08 00
Borneo (Indonesia).....	+ 8	20 00
Bosnia & Herzegovina.....	+ 1	13 00
Botswana.....	+ 2	14 00
Brazil: East of 52° 30' W. (approx.).....	+ 3	09 00
Amazonas, Matto Grosso.....	+ 4	08 00
Acre Territory.....	+ 5	07 00
British Isles.....	+ 0	12 00
Brunei.....	+ 8	20 00
Bulgaria.....	+ 2	14 00
Burkina Faso.....	+ 0	12 00
Burundi.....	+ 2	14 00
Caicos Is.....	+ 4	08 00
Cambodia.....	+ 7	19 00
Cameroon.....	+ 1	13 00
Campbell Is.....	+ 12	24 00
Canada: Belle Isle, Labrador, and Newfoundland.....	+ 3½	08 30
Anticosti Is., Cape Breton Is., Magdalen Is., New Brunswick, Nova Scotia, Prince Edward Is., Quebec (E of 68° W), and Sable Is. (E of 90° W), Quebec (W of 68°), and Southampton Is.....	+ 5	07 00
Manitoba, Ontario (W of 90° W), Melville Peninsula (west), and N.W. Territories (east).....	+ 6	06 00
Alberta, Saskatchewan, and N.W. Territories (middle).....	+ 7	05 00
British Columbia and N.W. Territories (west).....	+ 8	04 00
Yukon.....	+ 8	04 00
Arctic Is. (No definite standard time used.).....	+ 0	12 00
Canary Is.....	+ 1	11 00
Cape Verde.....	+ 9	21 00
Caroline Is.: Palau.....	+ 10	22 00
Truk.....	+ 11	23 00
Ponape.....	+ 11	23 00
Cayman Is.....	+ 5	07 00
Celebes Is. (Indonesia).....	+ 8	20 00
Central African Republic.....	+ 1	13 00
Chad.....	+ 1	13 00
Chagos Is.....	+ 5	17 00
Chatham Is.....	+ 12½	00 45
Chile.....	+ 4	08 00
China.....	+ 8	20 00
Christmas Is.....	+ 7	19 00
C.I.S.: Karelo-Finnish, Belarus, Ukraine, Moldova, and European Russia.....	+ 3	15 00
Armenia and Azerbaijan.....	+ 4	16 00
Kazakh, Uzbek, Turkmenistan, and Tajikistan.....	+ 5	17 00
Kyrgyzstan & West Siberian region.....	+ 6	18 00
approx. 82° 30' to 97° 30' W.....	+ 7	19 00
Buryat, East Siberian region.....	+ 8	20 00
approx. 112° 30' to 127° 30' W.....	+ 9	21 00
Kuri Is., Sakhalin Is.....	+ 10	22 00
approx. 142° 30' to 158° 30' W.....	+ 11	23 00
approx. 157° 30' to 182° 30' W.....	+ 12	24 00
approx. 172° 30' W to coast.....	+ 13	01 00
Cilippen Is.....	+ 7	05 00
Cocos Is.....	+ 8	06 00
Cocos (Keeling) Is.....	+ 6½	18 30
Colombia.....	+ 5	07 00
Comoros.....	+ 3	15 00
Congo.....	+ 1	13 00
Cook Is.....	+ 10½	01 30
Corsica.....	+ 1	13 00
Costa Rica.....	+ 8	06 00
Croatia.....	+ 2	14 00
Croatia.....	+ 1	13 00
Crozet Is.....	+ 3	15 00
Cuba.....	+ 5	07 00
Curacao.....	+ 4	08 00
Cyprus.....	+ 2	14 00
Czech Republic.....	+ 1	13 00
Denmark.....	+ 1	13 00
Diego Garcia.....	+ 5	17 00
Djibouti.....	+ 3	15 00
Dominica.....	+ 4	08 00
Dominican Republic.....	+ 4	08 00
Easter Is.....	+ 7	05 00
Ecuador.....	+ 5	07 00

Country	Standard or local time	
	Hours fast or slow of UTC	Time at 12:00 hrs. UTC
Egypt.....	+ 2	14 00
El Salvador.....	+ 6	06 00
Enderbury Is. (Kiribati).....	+ 11	01 00
Equatorial Guinea.....	+ 1	13 00
Estonia.....	+ 3	15 00
Ethiopia.....	+ 3	15 00
Falkland Is.....	+ 4	08 00
Fanning Is.....	+ 10	02 00
Faroer.....	+ 0	12 00
Fernando de Noronha Is.....	+ 2	10 00
Fiji Is.....	+ 12	24 00
Finland.....	+ 2	14 00
France.....	+ 1	13 00
French Guiana.....	+ 3	09 00
French Polynesia.....	+ 10	02 00
Gabon.....	+ 1	13 00
Galapagos Is.....	+ 5	07 00
Gambia, The.....	+ 0	12 00
Georgia.....	+ 4	16 00
Germany.....	+ 1	13 00
Ghana.....	+ 0	12 00
Gibraltar.....	+ 1	13 00
Gilbert Is. (Kiribati).....	+ 12	24 00
Gough Is.....	+ 0	12 00
Greece.....	+ 2	14 00
Greenland: Scoresbysund Area.....	+ 3	09 00
Central Thule Area.....	+ 4	08 00
Grenada.....	+ 4	08 00
Guadeloupe.....	+ 4	08 00
Guam.....	+ 10	22 00
Guantanamo Bay.....	+ 5	07 00
Guatemala.....	+ 1	08 00
Guinea.....	+ 0	12 00
Guinea-Bissau.....	+ 0	12 00
Guyana.....	+ 3	09 00
Haiti.....	+ 5	07 00
Hawaii.....	+ 10	02 00
Heard Is.....	+ 5	17 00
Honduras.....	+ 6	06 00
Hong Kong.....	+ 8	20 00
Howland Is. (U.S.).....	+ 11	01 00
Hungary.....	+ 1	13 00
Iceland.....	+ 0	12 00
India.....	+ 5½	17 30
Iran.....	+ 3½	15 30
Iran.....	+ 3	15 00
Ireland.....	+ 0	12 00
Israel.....	+ 2	14 00
Italy.....	+ 1	13 00
Ivory Coast.....	+ 0	12 00
Jamaica.....	+ 5	07 00
Jan Mayen Is.....	+ 1	11 00
Japan.....	+ 9	21 00
Jarvis Is.....	+ 10	02 00
Java (Indonesia).....	+ 7	19 00
Johnston Is.....	+ 10	02 00
Jordan.....	+ 2	14 00
Juan Fernandez Is. (Chile).....	+ 4	08 00
Kanton Is. (Kiribati).....	+ 11	01 00
Kenya.....	+ 3	15 00
Kerguelen Is.....	+ 5	17 00
Kermadec Is.....	+ 12	24 00
Korea.....	+ 9	21 00
Kuwait.....	+ 3	15 00
Laccadive Is.....	+ 5½	17 30
Laos.....	+ 7	19 00
Latvia.....	+ 3	15 00
Lebanon.....	+ 2	14 00
Lesotho.....	+ 2	14 00
Liberia.....	+ 0	12 00
Libya.....	+ 2	14 00
Liechtenstein.....	+ 1	13 00
Line Is. (Kiribati).....	+ 10	02 00
Lithuania.....	+ 3	15 00
Lord Howe Is.....	+ 10½	22 30
Luxembourg.....	+ 1	13 00
Macao.....	+ 8	20 00
Madagascar.....	+ 11	23 00
Madagascar.....	+ 3	15 00
Madeira Is.....	+ 0	12 00
Malawi.....	+ 2	14 00
Malaysia.....	+ 7½	10 30
Maldives Is.....	+ 5	17 00
Malta.....	+ 0	12 00
Manchuria.....	+ 8	20 00
Manihiki Is.....	+ 11	01 00
Mariana Is.....	+ 10	22 00
Marquesas Is.....	+ 9½	02 30
Marshall Is.....	+ 12	24 00
Martin Vaz Is.....	+ 1	13 00
Martinique.....	+ 4	08 00
Mauritania.....	+ 0	12 00
Mauritius Is.....	+ 4	16 00
Mayotte.....	+ 3	15 00
Mexico: East of the States of Sonora, Sinaloa, and Nayarit.....	+ 0	06 00
Sonora, Sinaloa, Nayarit, and Baja California (south of 28° N).....	+ 7	05 00
Baja California (north of 28° N).....	+ 8	04 00
Midway Is.....	+ 11	01 00
Molucca Is. (Indonesia).....	+ 0	12 00
Monaco.....	+ 1	13 00
Mongolia.....	+ 8	20 00
Montserrat.....	+ 4	08 00
Morocco.....	+ 0	12 00
Mozambique.....	+ 2	14 00
Myanmar.....	+ 6½	18 30
Namibia.....	+ 2	14 00
Nauru.....	+ 11½	23 30
Navassa Is.....	+ 5	07 00
Nepal.....	+ 5½	17 40

Country	Standard or local time	
	Hours fast or slow of UTC	Time at 12:00 hrs. UTC
Netherlands.....	+ 1	13 00
New Caledonia.....	+ 11	23 00
New Zealand.....	+ 12	24 00
Nicaragua.....	+ 6	06 00
Nicobar Is.....	+ 5½	17 30
Niger.....	+ 1	13 00
Nigeria.....	+ 1	13 00
Niue.....	+ 11	01 00
Norfolk Is.....	+ 11½	23 30
Norway.....	+ 1	13 00
Ogasawara Is.....	+ 9	21 00
Oman.....	+ 4	16 00
Pakistan.....	+ 5	17 00
Palmyra Is.....	+ 10	02 00
Panama.....	+ 5	07 00
Papua New Guinea.....	+ 10	22 00
Paraguay.....	+ 4	08 00
Peru.....	+ 5	07 00
Philippines.....	+ 8	20 00
Phoenix Is. (Kiribati).....	+ 11	01 00
Pitcairn Is.....	+ 8½	03 30
Poland.....	+ 1	13 00
Portugal.....	+ 0	12 00
Pribilof Is.....	+ 11	01 00
Prince Edward & Marion Is.....	+ 3	15 00
Providence Is.....	+ 5	07 00
Puerto Rico.....	+ 4	08 00
Qatar.....	+ 3	15 00
Reunion Is.....	+ 4	16 00
Revilla Giedgo Is.....	+ 7	05 00
Romania.....	+ 2	14 00
Rwanda.....	+ 2	14 00
Ryukyu Is.....	+ 9	21 00
Sabah (Malaysia).....	+ 8	20 00
St. Helena Is.....	+ 0	12 00
St. Kitts, Nevis.....	+ 4	08 00
St. Lucia.....	+ 4	08 00
St. Paul Is.....	+ 5	17 00
St. Pierre & Miquelon Is.....	+ 3	09 00
St. Vincent.....	+ 4	08 00
Salpan.....	+ 10	22 00
Samoa Is.....	+ 11	01 00
San Andres Is.....	+ 5	07 00
San Marino.....	+ 1	13 00
Sao Tome & Principe Is.....	+ 0	12 00
Sarawak (Malaysia).....	+ 8	20 00
Sardinia.....	+ 1	13 00
Saudi Arabia.....	+ 3	15 00
Senegal.....	+ 0	12 00
Seychelles Is.....	+ 4	16 00
Sicily.....	+ 1	13 00
Sierra Leone.....	+ 0	12 00
Singapore.....	+ 8	20 00
Sint Eustatius.....	+ 4	08 00
Sint Maarten.....	+ 4	08 00
Slovakia.....	+ 1	13 00
Slovenia.....	+ 1	13 00
Solomon Is.....	+ 11	23 00
Somal Republic.....	+ 3	15 00
South Africa.....	+ 2	14 00
South Georgia Is., South Sandwich Is., South Shetland Is., South Orkney Is. (No definite standard time used.).....	+ 2	10 00
South Yemen.....	+ 3	15 00
Spain.....	+ 1	13 00
Sri Lanka.....	+ 5½	17 30
Sudan.....	+ 2	14 00
Sumatra (Indonesia).....	+ 7	19 00
Surinam.....	+ 3½	08 30
Svalbard Is.....	+ 1	13 00
Swan Is.....	+ 6	06 00
Swaziland.....	+ 2	14 00
Sweden.....	+ 1	13 00
Switzerland.....	+ 1	13 00
Syria.....	+ 2	14 00
Taiwan.....	+ 8	20 00
Tanzania.....	+ 3	15 00
Tasmania (Australia).....	+ 10	22 00
Thailand.....	+ 7	19 00
Timor Is. (Indonesia).....	+ 8	20 00
Togo.....	+ 0	12 00
Tonga.....	+ 13	01 00
Trinidad & Tobago.....	+ 2	14 00
Trinidad Is.....	+ 2	10 00
Tristan da Cunha Is.....	+ 4	08 00
Tromelin Is.....	+ 4	16 00
Tunisia.....	+ 1	13 00
Turkey.....	+ 3	15 00
Turks Is.....	+ 4	08 00
Tuvalu.....	+ 12	24 00
Uganda.....	+ 3	15 00
United Arab Emirates.....	+ 4	16 00
United States of America: Eastern Time.....	+ 5	07 00
Central Time.....	+ 6	06 00
Mountain Time.....	+ 7	05 00
Pacific Time.....	+ 8	04 00
Uruguay.....	+ 3	09 00
Vanuatu.....	+ 11	23 00
Vatican City.....	+ 1	13 00
Venezuela.....	+ 4	08 00
Vietnam.....	+ 7	19 00
Virgin Is.....	+ 4	08 00
Wake Is.....	+ 12	24 00
Wallis & Futuna Is.....	+ 12	24 00
Western Sahara.....	+ 0	12 00
West Irian (Indonesia).....	+ 9	21 00
West Indies.....	+ 4	08 00
Yemen.....	+ 3	15 00
Yugoslavia.....	+ 1	13 00
Zaire.....	+ 2	14 00
Zambia.....	+ 2	14 00
Zanzibar (Tanzania).....	+ 3	15 00
Zimbabwe.....	+ 2	14 00

The theoretical system described is applied, in a strict sense, only in oceanic regions. On land or on groups of islands the system is applied with certain local deviations made necessary by frontiers or to permit an entire island group to have the same time zone. The time used in each country, whether it is the time of the corresponding zone or a modified time, is fixed by law and is called legal time, or more generally, standard time.

Another deviation from this theoretical system is that certain countries, for economic reasons, modify their legal time for part of the year (especially in summer) by advancing it an hour or another fraction of time. Where such deviations are maintained on a year-around basis, the time kept is considered to be standard time.

10 METER BEACONS

FREQ.	CALL	OPERATION	LOCATION	NOTES
28.175	VE3TEN	C	OTTAWA, ONT.	10W,GP
28.1825	SV3AQR/B	C	AMALIAS, GREECE	4W,GP
28.191	VE6YF		EDMONTON, ALTA.	10W
28.195	IY4M	ROBOT	BOLOGNA, ITALY	20W,5/8 GP
28.2	GB3SX	C	CROWBOROUGH, ENGLAND	8W,DIPOLE
28.201	LU8ED		ARGENTINA	5W
28.202	KE5GY	I	ARLINGTON, TX	5W,VERTICAL
28.2025	ZS5VHF		NATAL, RSA	5W,GP
28.204	DLOIGI	C	GERMANY	100W,VERT DIPOLE
28.205	KA3OEM		MEADVILLE, PA	27W,YAGI/WEST
28.206	KJ4X		PICKENS, SC	2W,VERTICAL
28.2075	N8ZKP	C	BROOKPARK OH	10W,VERT
28.208	WA1IOB	C	MARLBORO, MA	75W,VERT
28.209	NX2O	C	STATEN ISLAND, NY	10W,GP
28.21	3B8MS	C	MAURITIUS	GP
28.21	K4KMZ	I	ELIZABETHTOWN, KY	20W,VERT
28.21	KC4DPC	C	WILMINGTON, NC	4W,DIPOLE
28.212	EA6RCM		PALMA DE MALLORCA	4W,5 EL YAGI NNE
28.2125	ZD9GI	C	GOUGH ISLAND	GP
28.213	PT7BCN	C	CEARA, BRAZIL	
28.216	GB3RAL	C	SLOUGH, ENGLAND	20W,GP
28.2175	WB9VMY	C	CALUMET, OK	2W,DIPOLE
28.218	W8UR	C	MACKINAC ISLAND, MI	0.5W,VERT
28.2185	PT8AA		RIO BRANCO, BRAZIL	5W,GP
28.2195	LU4XS		CAPE HORN, ARGENTINA	
28.22	5B4CY	C	CYPRUS	26W,GP
28.221	PY2GOB		SAN PAULO, BRAZIL	15W,VERT
28.222	W9UXO	C	NR CHICAGO, IL	10W,GP
28.2225	HG2BHA	C	TAPOLCA, HUNGARY	10W,GP
28.225	N6TWX	I	GRASSVALLEY, CA	30W,3 EL YAGI
28.225	KW7Y		EVERETT, WA	4W,OMNI
28.225	PY2AMI	C	SASO PAULO, BRAZIL	5W,DIPOLE
28.2275	EA6AU	C	MALLORCA, BALEARIC IS	10W,5/8 GP
28.23	ZL2MHF	C	MT. CLMIE, NEW ZEALAND	50W,VERT DIPOLE
28.232	W7JPI	C	SONOITA, AZ	5W,3 EL YAGI NE
28.233	KD4EC	C	JUPITER, FL	7W,GP
28.235	VP9BA	C	HAMILTON, BERMUDA	10W,GP
28.237	NV6A	C	SAN DIEGO, CA	0.5W,VERT
28.2375	LA5TEN	C	OSLO, NORWAY	10W,5/8 GP
28.2405	5Z4ERR	C	KIAMBU, KENYA	
28.244	WA6APQ	C	LONG BEACH, CA	30W,VERT
28.245	A92C		BAHRAIN	DIPOLE NW/SE
28.2455	ZS1CTB	C	CAPETOWN, RSA	20W,1/4 VERT
28.246	N8KHE	C	MACKINAW, MI	0.050W,VERT
28.2475	EA2HB	I	SPAIN	6W,GP
28.248	K1BZ	C	BELFAST, ME	5W,VERT DIPOLE
28.2495	EA3JA		BARCELONA, SPAIN	
28.25	W3SV	C	ELVERSON, PA	10W,VERT
28.25	KOHTF	C	DES MOINES, IA	2W,GP
28.25	Z21ANB	C	BULAWAYO, ZIMBABWE	8W,GP
28.250	WA4SLT	I	HASTINGS, FL	20W,VERT
28.2505	4N3ZHK	C	MT. KUM, YUGOSLAVIA	1W,VERT
28.252	WJ7X	C	SEATTLE, WA	5W,RINGO
28.2525	OH2TEN		FINLAND	
28.255	LUIUG		G RAL PICO, ARGENTINA	5W,GP
28.2575	DK0TEN	C	ARBEITSGEN, GERMANY	40W,GP
28.258	WB4JHS	I	KISSIMMEE, FL	5W,VERT
28.259	WB9FVR	C	PEMBROKE PINES, FL	1W,DIPOLE
28.26	VK5WI	C	ADELAIDE, AUSTRALIA	10W,GP
28.262	VK2RSY	C	SYDNEY,NSW,AUSTRALIA	25W,GP
28.263	N6PEQ	C?	TUSTIN, CA	2W,HORZ DIPOLE
28.264	VK6RWA	C	PERTH, WA, AUSTRALIA	
28.265	VK4RIK		CAIRNS, AUSTRALIA	
28.266	VK6RTW	C	ALBANY, WA, AUSTRALIA	
28.266	KB4UPI	C	BIRMINGTON, AL	20W,1/4 VERT
28.268	VK8VF		DARWIN, AUSTRALIA	
28.2685	W9KFO	I	EATON, IL	0.750W,VERT
28.27	ZS6PW	C	PRETORIA, RSA	10W,3 EL YAGI
28.27	VK4RTL	C	TOWNSVILLE, QLD, AUSTRALIA	
28.2705	KF4MS	C	ST PETERSBURG, FL	5W
28.2725	9L1FTN	I	FREETOWN, SIERRA LEONE	10W,VERT DIPOLE
28.2745	ZS1LA		STILLBAY, RSA	20W,3 EL YAGI NW
28.275	AL7GQ	C	DENVER, CO	1W,LOOP
28.2755	N6RDX	I	STOCKTON, CA	20W,3 EL YAGI

10 METER BEACONS

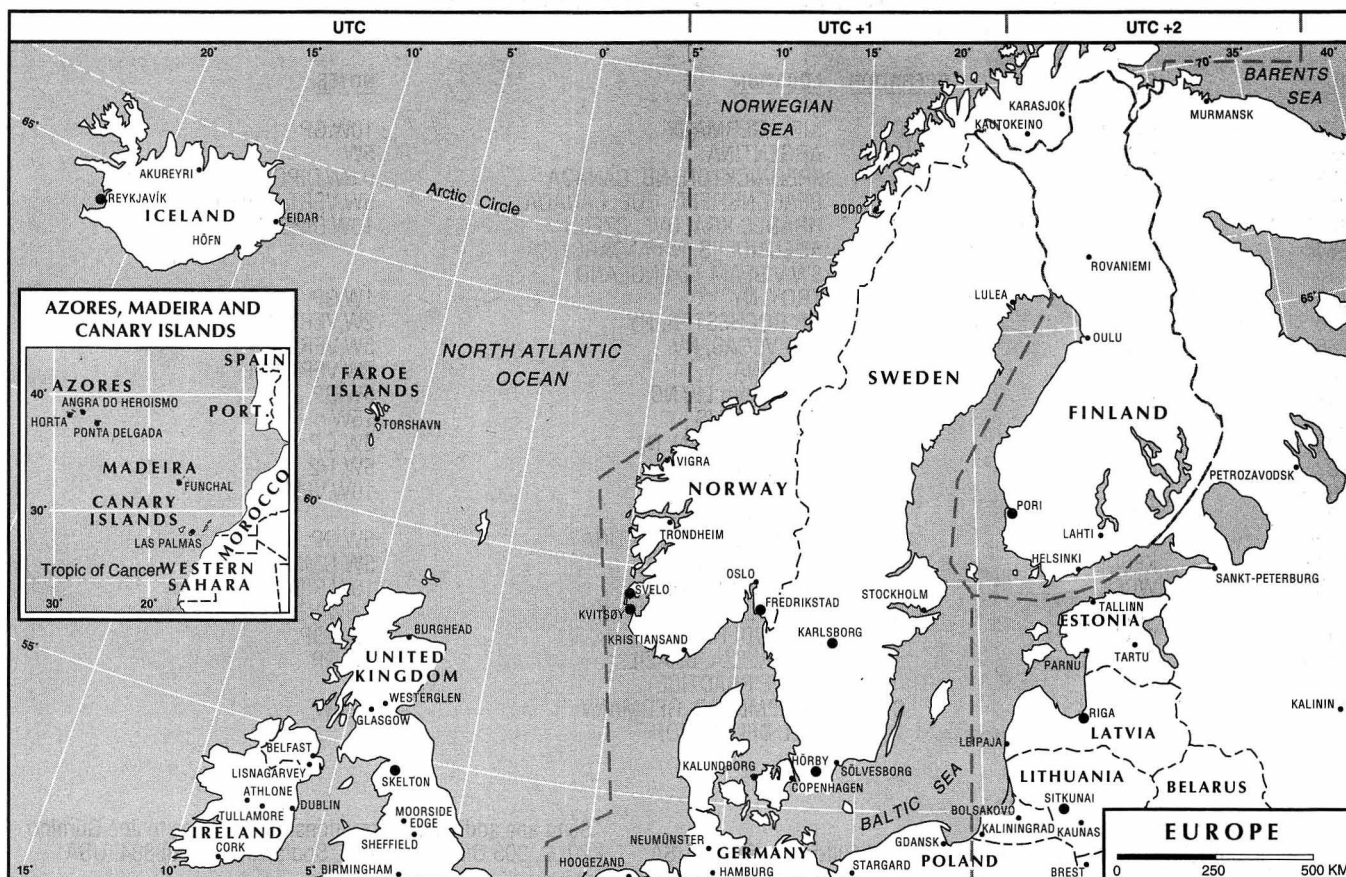
FREQ.	CALL	OPERATION	LOCATION	NOTES
28.277	DF0AAB	C	KIEL, GERMANY	10W,GP
28.28	LU8EB		ARGENTINA	5W
28.282	VE1MUF	C	FREDRICKTON, NB, CANADA	0.5W,DIPOLE
28.282	VE2HOT	C	BEACONSFIELD, QUE, CANADA	5W,VERT DIPOLE
28.2825	OK0EG	C	HRADEC KRALOVE, CZECH	10W,DIPOLE
28.284	VP8ADE	C	ADELAIDE IS, NR ANTARCTICA	
			8W,V BEAM TO ENGLAND	
28.285	N2JNT	C	TROY, NY	1W,GP
28.286	KE2DI		NR ROCHESTER, NY	2W,VERT DIPOLE
28.286	KK4M	C	LAS VEGAS, NV	5W,VERT
28.2865	N5AQM	C	ARIZONA	2W,VERTICAL
28.287	W8OMV		NR ASHVILLE, NC	5W,GP
28.287	H44SI	C	SOLOMON IS	15W
28.288	W2NZH	I	MOORESTOWN, NJ	3W GP
28.29	SK 5TEN		SWEDEN	5W,1/2
28.29	VS6TEN	C	HONG KONG	10W,VERT
28.292	ZD8HF		ASCENSION ISLAND	
28.2925	LU2FFV		SAN JORGE, ARGENTINA	5W,GP
28.284	KE0UL		GREELY, CO	5W OMNI VERT
28.295	WC8E	I	CINCINNATI, OHIO	10W,RINGO
28.295	W3VD	C	LAUREL, MD	1.5W,VERT DIPOLE
28.297	WA4DJS	I	FT LAUDERDALE, FL	30W,GP
28.3025	PT7AAC		FORTALEZA, BRAZIL	5W,GP
			-CODE PRACTICE	
28.993	DF0ANN	C	NUREMBERG, GERMANY	0.30W,
			1-EL DELTA LOOP	

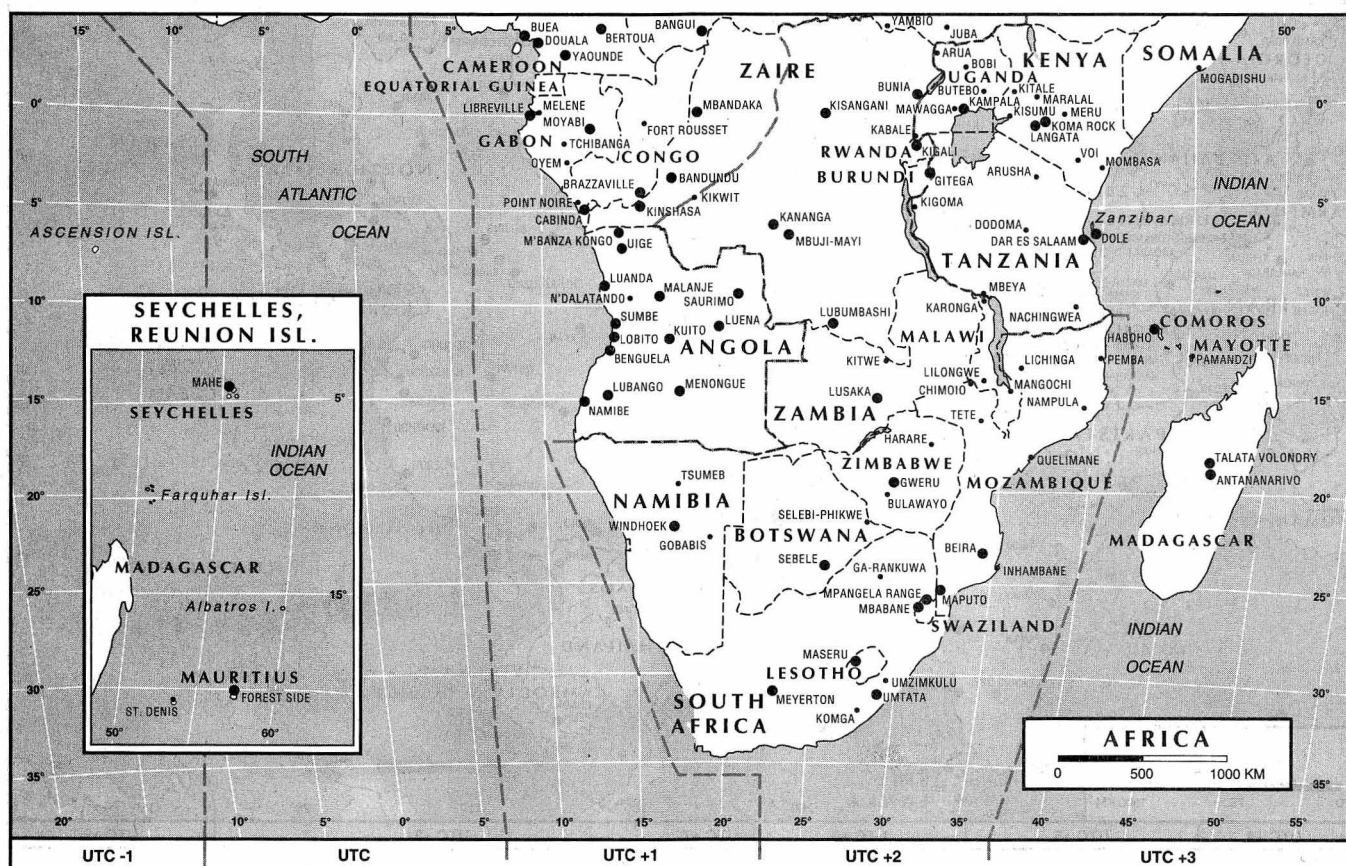
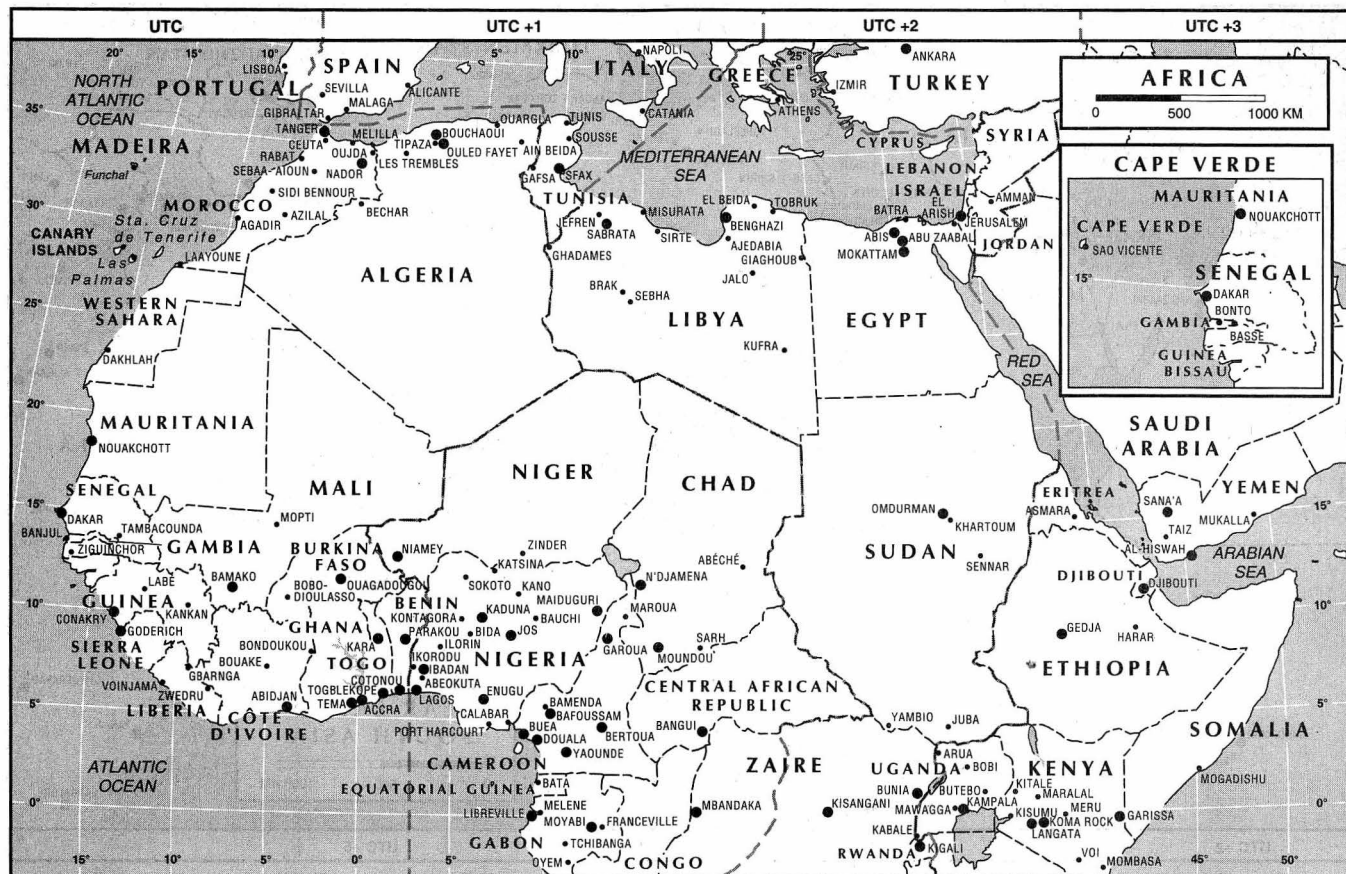
C=Continuous; I=Intermittent

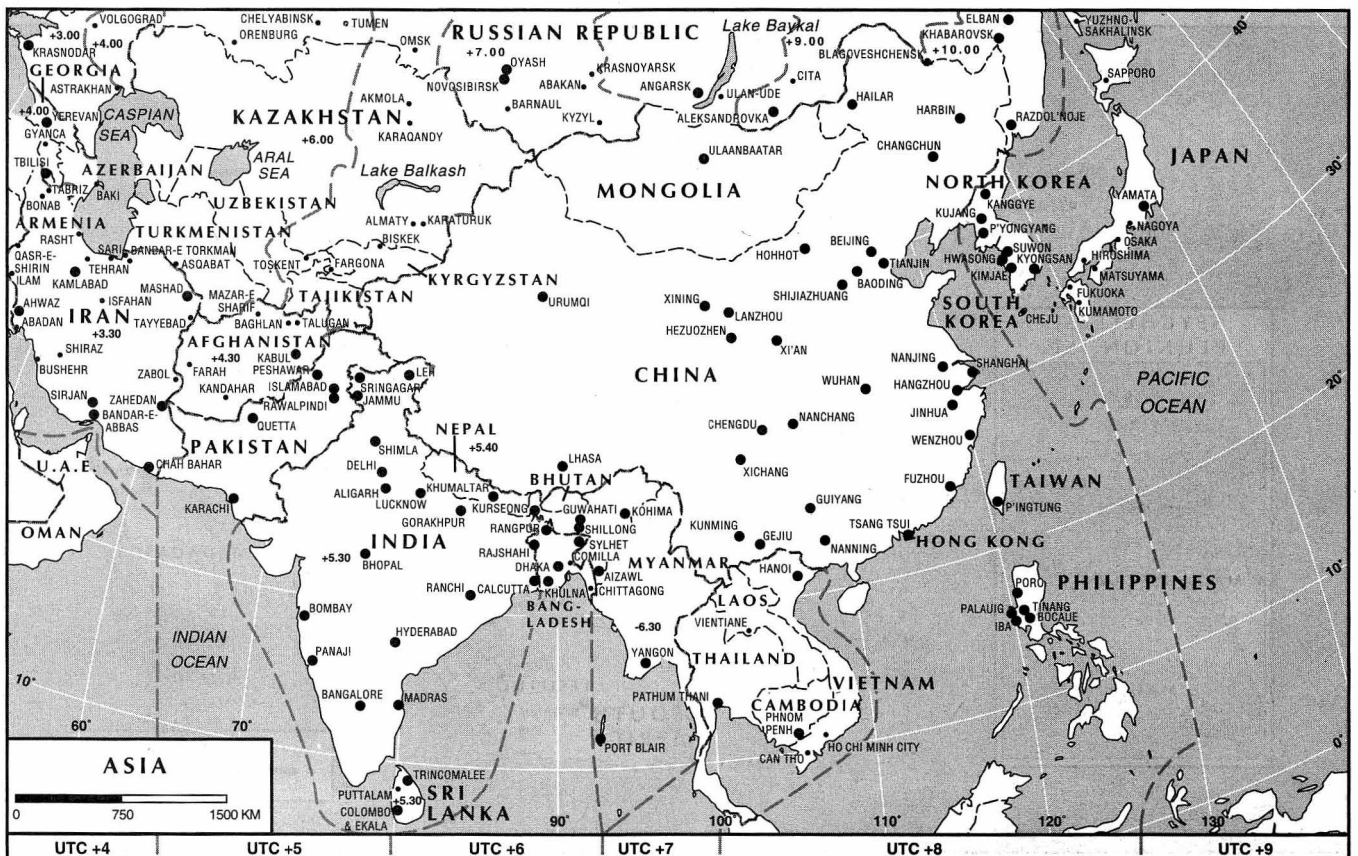
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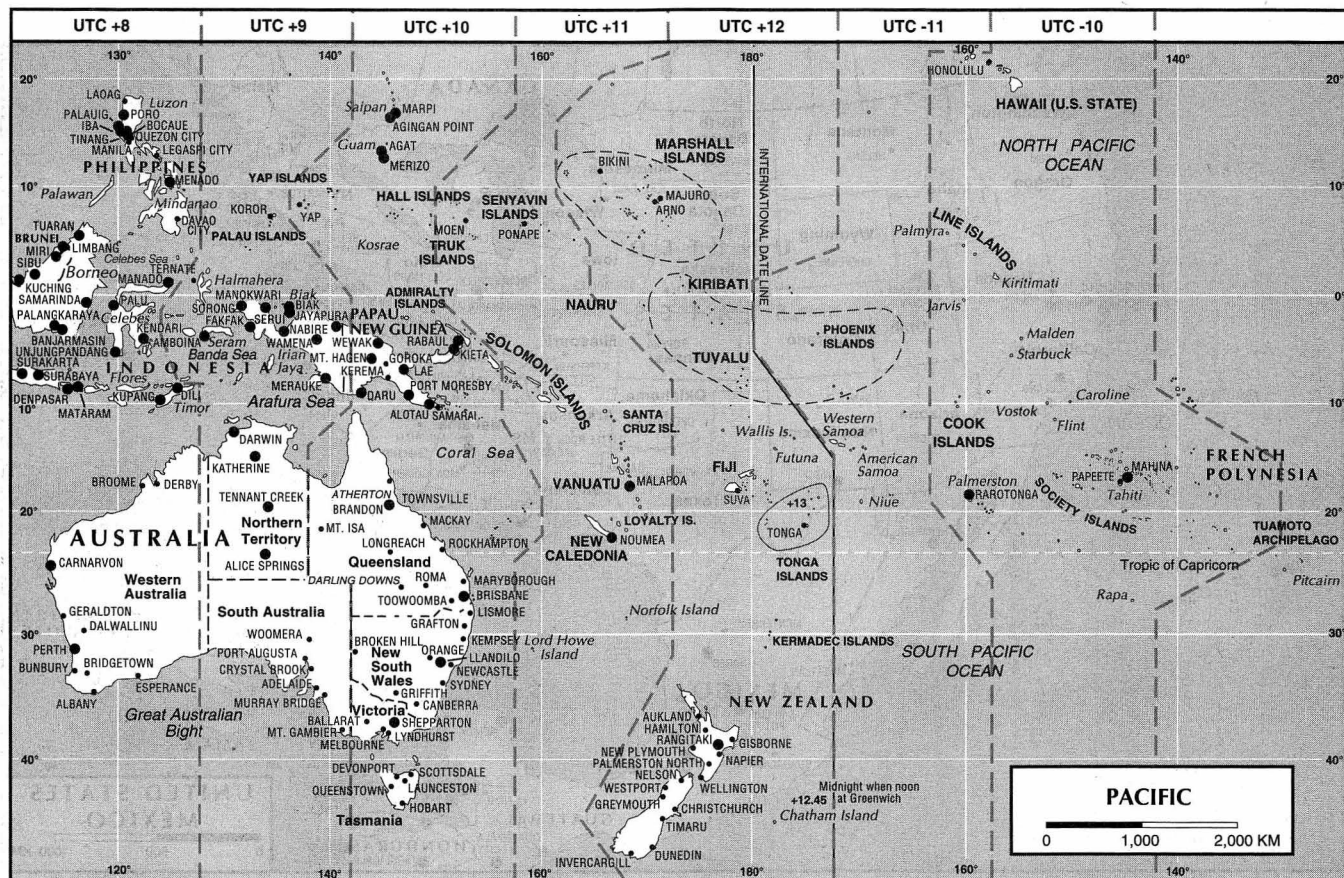
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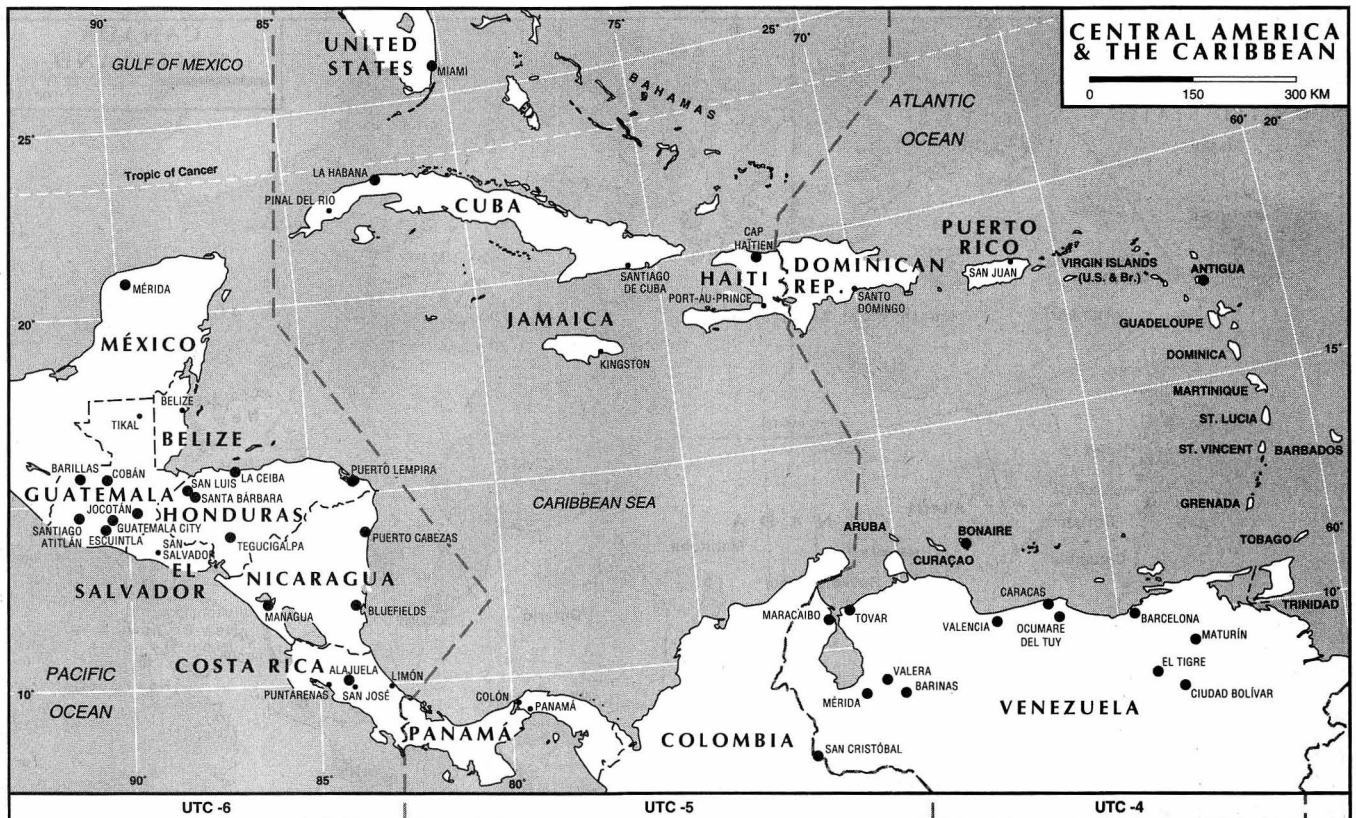














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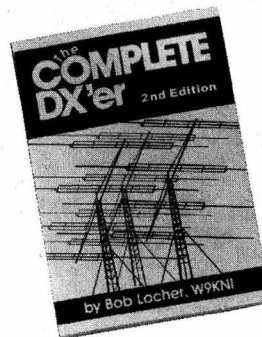
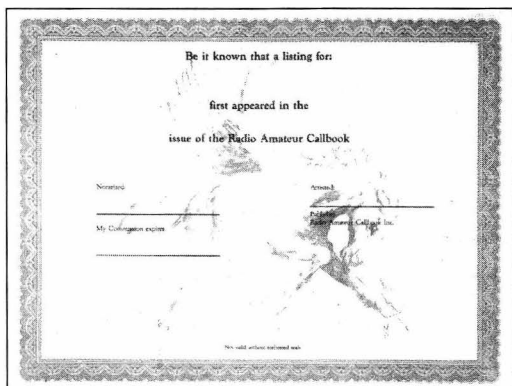
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